

Nikon

DIGITAL CAMERA

COOLPIX S230

User's Manual



En

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Introduction

First Steps



Basic Photography and Playback: Auto Mode



Shooting Suited for the Scene



Automatic Shooting of a Smiling Face



More on Playback



Movies



Voice Recordings

Connecting to Televisions, Computers and Printers

MENU

Shooting, Playback and Setup Menus

Technical Notes

For Your Safety

To prevent damage to your Nikon product or injury to yourself or to others, read the following safety precautions in their entirety before using this equipment. Keep these safety instructions where all those who use the product will read them. The consequences that could result from failure to observe the precautions listed in this section are indicated by the following symbol:



This icon marks warnings, information that should be read before using this Nikon product, to prevent possible injury.

WARNINGS

⚠ Turn off in the event of malfunction

Should you notice smoke or an unusual smell coming from the camera or AC adapter, unplug the AC adapter and remove the battery immediately, taking care to avoid burns. Continued operation could result in injury. After removing or disconnecting the power source, take the equipment to a Nikon-authorized service representative for inspection.

⚠ Do not disassemble

Touching the internal parts of the camera or AC adapter could result in injury. Repairs should be performed only by qualified technicians. Should the camera or AC adapter break open as the result of a fall or other accident, take the product to a Nikon-authorized service representative for inspection, after unplugging the product and/or removing the battery.

⚠ Do not use the camera or AC adapter in the presence of flammable gas

Do not use electronic equipment in the presence of flammable gas, as this could result in explosion or fire.

⚠ Handle the camera strap with care

Never place the strap around the neck of an infant or child.

⚠ Keep out of reach of children

Particular care should be taken to prevent infants from putting the battery or other small parts into their mouths.

⚠ Observe caution when handling the battery

The battery may leak or explode if improperly handled. Observe the following precautions when handling the battery for use in this product:

- Before replacing the battery, turn the product off. If you are using the AC adapter, be sure it is unplugged.
- Only use a Rechargeable Li-ion Battery EN-EL10 (supplied). Charge the battery by inserting it in a Battery Charger MH-63 (supplied).
- When inserting the battery, do not attempt to insert it upside down or backwards.
- Do not short or disassemble the battery or attempt to remove or break the battery insulation or casing.
- Do not expose the battery to flame or to excessive heat.
- Do not immerse in or expose to water.
- Return the battery to the battery case for transportation. Do not transport or store with metal objects such as necklaces or hairpins.
- The battery is prone to leakage when fully discharged. To avoid damage to the product, be sure to remove the battery when no charge remains.
- Discontinue use immediately should you notice any change in the battery, such as discoloration or deformation.
- If liquid from the damaged battery comes in contact with clothing or

skin, rinse immediately with plenty of water.

⚠ Observe the following precautions when handling the battery charger

- Keep dry. Failure to observe this precaution could result in fire or electric shock.
- Dust on or near the metal parts of the plug should be removed with a dry cloth. Continued use could result in fire.
- Do not handle the power cable or go near the battery charger during lightning storms. Failure to observe this precaution could result in electric shock.
- Do not damage, modify, forcibly tug or bend the power cable, place it under heavy objects, or expose it to heat or flames. Should the insulation be damaged and the wires become exposed, take it to a Nikon-authorized service representative for inspection. Failure to observe these precautions could result in fire or electric shock.
- Do not handle the plug or battery charger with wet hands. Failure to observe this precaution could result in electric shock.
- Do not use with travel converters or adapters designed to convert from one voltage to another or with DC-to-AC inverters. Failure to observe this precaution could damage the product or cause overheating or fire.

Use appropriate cables

When connecting cables to the input and output jacks, use only the cables provided or sold by Nikon for the purpose, to maintain compliance with product regulations.

Handle moving parts with care

Be careful that your fingers or other objects are not pinched by the lens cover or other moving parts.

CD-ROMs

The CD-ROMs supplied with this device should not be played back on audio CD equipment. Playing CD-ROMs on an audio CD player could cause hearing loss or damage the equipment.

Observe caution when using the flash

Using the flash close to your subject's eyes could cause temporary visual impairment. Particular care should be observed if photographing infants, when the flash should be no less than one meter (3 ft. 4 in.) from the subject.

Do not operate the flash with the flash window touching a person or object

Failure to observe this precaution could result in burns or fire.

Avoid contact with liquid crystal

Should the monitor break, care should be taken to avoid injury caused by broken glass and to prevent liquid crystal from the monitor touching the skin or entering the eyes or mouth.

Notices

Notice for Customers in the U.S.A.

Federal Communications Commission (FCC) Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.



Nikon
COOLPIX S230

CAUTIONS

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Nikon Corporation may void the user's authority to operate the equipment.

Interface Cables

Use the interface cables sold or provided by Nikon for your equipment. Using other interface cables may exceed the limits of Class B Part 15 of the FCC rules.

Notice for customers in the State of California

WARNING

Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm.

Wash hands after handling.

Nikon Inc.,
1300 Walt Whitman Road
Melville, New York 11747-3064
USA
Tel: 631-547-4200

Notice for customers in Canada

CAUTION

This Class B digital apparatus complies with Canadian ICES-003.

ATTENTION

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Notice for customers in Europe

This symbol indicates that this product is to be collected separately.



The following apply only to users in European countries:

- This product is designated for separate collection at an appropriate collection point. Do not dispose of as household waste.
- For more information, contact the retailer or the local authorities in charge of waste management.

This symbol on the battery indicates that the battery is to be collected separately.



The following apply only to users in European countries:

- All batteries, whether marked with this symbol or not, are designated for separate collection at an appropriate collection point. Do not dispose of as household waste.
- For more information, contact the retailer or the local authorities in charge of waste management.

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About This Manual

Thank you for your purchase of a Nikon COOLPIX S230 digital camera. This manual was written to help you enjoy taking pictures with your Nikon digital camera. Read this manual thoroughly before use, and keep it where all those who use the product will read it.

Symbols and Conventions

To make it easier to find the information you need, the following symbols and conventions are used:



This icon marks cautions, information that should be read before use, to prevent damage to the camera.



This icon marks tips, additional information that may be helpful when using the camera.



This icon marks notes, information that should be read before using the camera.



This icon indicates that more information is available elsewhere in this manual or in the *Quick Start Guide*.

Notations

- A Secure Digital (SD) memory card is referred to as a “memory card.”
- The setting at the time of purchase is referred to as the “default setting.”
- The names of menu items displayed in the camera monitor, and the names of buttons or messages displayed in the computer monitor appear in bold.

Screen Samples

In this manual, images are sometimes omitted from monitor display samples so that monitor indicators can be more clearly shown.

Illustrations and Screen Display

Illustrations and text displays shown in this manual may differ from actual display.



Internal Memory and Memory Cards

Pictures taken with this camera can be stored in the camera’s internal memory or on removable memory cards. If a memory card is inserted, all new pictures will be stored on the memory card and delete, playback and format operations will apply only to the pictures on the memory card. The memory card must be removed before the internal memory can be formatted or used to store pictures to, or delete, or view pictures.

Information and Precautions

Life-Long Learning

As part of Nikon's "Life-Long Learning" commitment to ongoing product support and education, continually updated information is available online at the following sites:

- For users in the U.S.A.: <http://www.nikonusa.com/>
- For users in Europe and Africa: <http://www.europe-nikon.com/support/>
- For users in Asia, Oceania, and the Middle East: <http://www.nikon-asia.com/>

Visit these sites to keep up-to-date with the latest product information, tips, answers to frequently asked questions (FAQs), and general advice on digital imaging and photography. Additional information may be available from the Nikon representative in your area. See the URL below for contact information:

<http://imaging.nikon.com/>

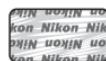
Use Only Nikon Brand Electronic Accessories

Nikon COOLPIX cameras are designed to the highest standards and include complex electronic circuitry. Only Nikon brand electronic accessories (including battery chargers, batteries and AC adapters) certified by Nikon specifically for use with this Nikon digital camera are engineered and proven to operate within the operational and safety requirements of this electronic circuitry.

THE USE OF NON-NIKON ELECTRONIC ACCESSORIES COULD DAMAGE THE CAMERA AND MAY VOID YOUR NIKON WARRANTY.

The use of third-party rechargeable Li-ion batteries not bearing the Nikon holographic seal could interfere with normal operation of the camera or result in the batteries overheating, igniting, rupturing, or leaking.

For more information about Nikon brand accessories, contact a local authorized Nikon dealer.



Holographic seal:

Identifies this device as an authentic Nikon product.

Before Taking Important Pictures

Before taking pictures on important occasions (such as at weddings or before taking the camera on a trip), take a test shot to ensure that the camera is functioning normally. Nikon will not be held liable for damages or lost profits that may result from product malfunction.

About the Manuals

- No part of the manuals included with this product may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form, by any means, without Nikon's prior written permission.
- Nikon reserves the right to change the specifications of the hardware and software described in these manuals at any time and without prior notice.
- Nikon will not be held liable for any damages resulting from the use of this product.
- While every effort was made to ensure that the information in these manuals is accurate and complete, we would appreciate it were you to bring any errors or omissions to the attention of the Nikon representative in your area (address provided separately).

Notice Concerning Prohibition of Copying or Reproduction

Note that simply being in possession of material that was digitally copied or reproduced by means of a scanner, digital camera or other device may be punishable by law.

- **Items prohibited by law from being copied or reproduced**

Do not copy or reproduce paper money, coins, securities, government bonds or local government bonds, even if such copies or reproductions are stamped "Sample." The copying or reproduction of paper money, coins, or securities which are circulated in a foreign country is prohibited. Unless the prior permission of the government was obtained, the copying or reproduction of unused postage stamps or post cards issued by the government is prohibited. The copying or reproduction of stamps issued by the government and of certified documents stipulated by law is prohibited.

- **Cautions on certain copies and reproductions**

The government has issued cautions on copies or reproductions of securities issued by private companies (shares, bills, checks, gift certificates, etc.), commuter passes or coupon tickets, except when a minimum of necessary copies are to be provided for business use by a company. Also, do not copy or reproduce passports issued by the government, licenses issued by public agencies and private groups, ID cards and tickets, such as passes and meal coupons.

- **Comply with copyright notices**

The copying or reproduction of copyrighted creative works such as books, music, paintings, woodcut prints, maps, drawings, movies and photographs is governed by national and international copyright laws. Do not use this product for the purpose of making illegal copies or to infringe copyright laws.

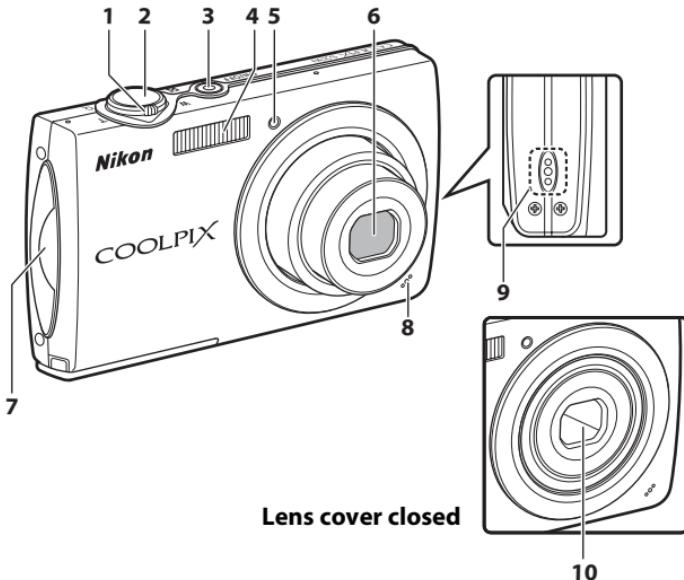
Disposing of Data Storage Devices

Please note that deleting images or formatting data storage devices such as memory cards or built-in camera memory does not completely erase the original image data. Deleted files can sometimes be recovered from discarded storage devices using commercially available software, potentially resulting in the malicious use of personal image data. Ensuring the privacy of such data is the user's responsibility.

Before discarding a data storage device or transferring ownership to another person, erase all data using commercial deletion software, or format the device and then completely refill it with images containing no private information (for example, pictures of empty sky). Be sure to also replace any pictures selected for the welcome screen (☞ 129). Care should be taken to avoid injury or damage to property when physically destroying data storage devices.

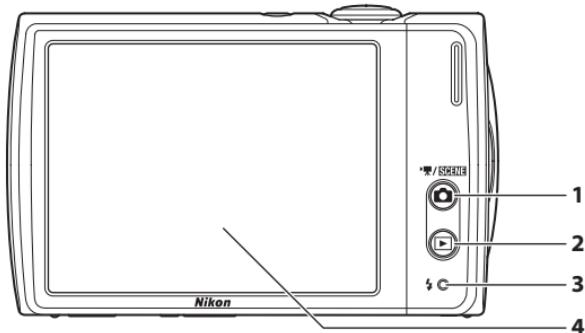
Parts of the Camera

The Camera Body

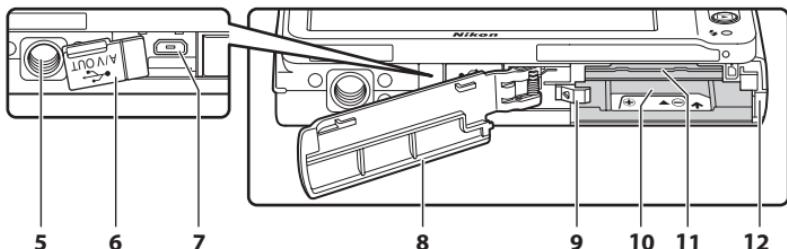


1	Zoom control	27
	W : wide	27
	T : tele	27
	■ : thumbnail playback	52
	Q : playback zoom	54
2	Shutter-release button	28
3	Power switch/Power-on lamp	24, 136

4	Built-in flash	32
5	Self-timer lamp	34
6	Lens	147, 158
7	Eyelet for camera strap	5
8	Built-in microphone	66, 82, 86
9	Speaker	67, 85, 88
10	Lens cover	145

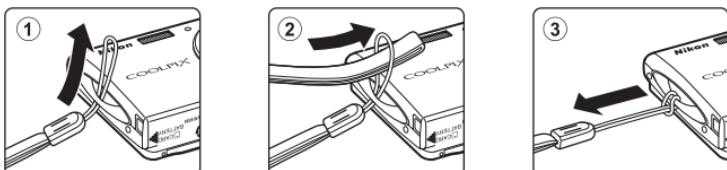


Opening the pin cover



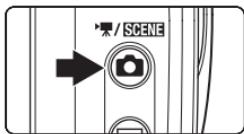
1	(shooting mode) button	6
2	(playback) button	6, 30
3	Indicator lamp	86
	Flash lamp	33
4	Monitor	8
5	Tripod socket	
6	Pin cover	91, 94, 98
7	Cable connector	91, 94, 98
8	Battery-chamber/ memory card slot cover	18, 22
9	Battery latch	18, 19
10	Battery-chamber	18
11	Memory card slot	22
12	Power connector cover	143

Attaching the Camera Strap



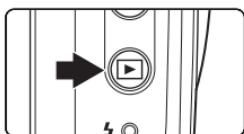
Basic Operations

The (Shooting Mode) Button



- Press the  button in playback mode to enter shooting mode.
- Press the  button in shooting mode to display the shooting-mode selection menu (□ 13).

The (Playback) Button



- Press the  button in shooting mode to enter playback mode.
- Press the  button in playback mode to display the playback-mode selection menu (□ 13).
- If the camera is turned off, hold down the  button to turn the camera on in playback mode.

Shutter-release Button

The camera features a two-stage shutter-release button. To set focus and exposure, press the shutter-release button halfway, stopping when you feel resistance. Focus and exposure lock while the shutter-release button is held in this position. To release the shutter and take a picture, press the shutter-release button the rest of the way down. Do not use force when pressing the shutter-release button, as this may result in camera shake and blurred pictures.



Press the
shutter-release
button halfway
to set focus and
exposure

Press the
shutter-release
button the rest
of the way down
to take picture

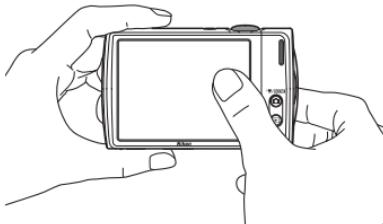
Operating the Touch Panel

The COOLPIX S230's monitor is a touch panel display. Operate the touch panel using your finger or the supplied stylus.

Tapping

Tap the touch panel.

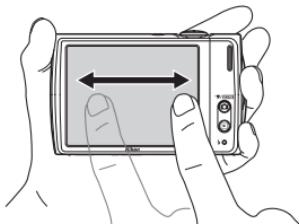
Use this operation to select a control or picture.



Dragging

Drag your finger across the touch panel.

Use this operation to view the previous or subsequent picture during playback.



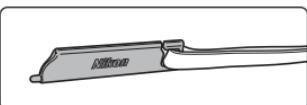
About the Stylus

Use the stylus when you find that operation using your finger is difficult, such as when using the **Paint** option (57), or the **Draw** option (47).



Attaching the Stylus

Attach the stylus to the strap as shown.



✓ Notes on the Touch Panel and the Stylus

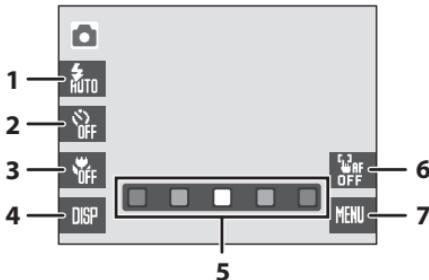
- Do not press on the touch panel with pointed objects other than the supplied stylus.
- Do not scratch or press the touch panel too hard.
- Do not place the stylus where small children can reach.
- Do not carry the camera by the stylus. The strap may slip off the stylus and the camera may fall.

Main Display of the Monitor/Touch Panel and Basic Operations

Shooting (Operation Controls)

Tap the following controls to change settings.

- The controls available and indicators displayed vary with information display on/off (12), shooting mode and the current camera settings.

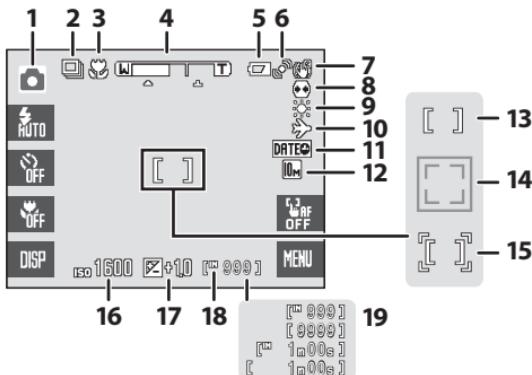


1		Flash mode 32
2		Self-timer 34
3		Macro mode 35
		Portrait one-touch zoom (in Portrait or Night portrait scene mode) 45
4		Information display on/off 12
5		White balance (in Food scene mode) 45
6		Touch AF/AE off 26
7		Menu 14

Shooting (Other Indicators)

The following monitor display shows the current settings applied from the shooting menu (107) and focus area.

- The indicators displayed vary with current camera settings and shooting mode.



1	Shooting mode* 24, 36, 50, 82
2	Continuous shooting mode, BSS 113
3	Blink proof 51
4	Macro mode 35
5	Zoom indicator 27, 35
6	Battery level indicator 24
7	Motion detection 134
8	Electronic VR icon 128
9	Distortion control 119
10	"Date not set" indicator 148
	Time zone indicator 130
11	Date imprint 133
12	Image mode 108
	Movie options 83
13	Focus area 28, 116
14	Focus area (Face Priority) 28, 116
15	Focus area (touch AF/AE) 26
16	ISO sensitivity 33, 115
17	Exposure compensation value 112
18	Internal memory indicator 25
19	Number of exposures remaining (still pictures) 24
	Movie length 82

* Indicators displayed vary with current shooting mode.

Playback (Operation Controls)

Tap the following controls to switch between monitor displays, or delete or edit pictures.

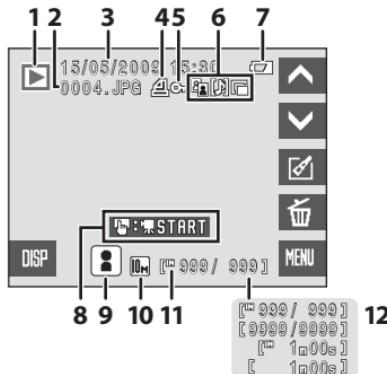
- The controls available and indicators displayed vary with information on/off (12), the picture played back and the current camera settings.



1		Information display on/off 12
2		Display previous picture 30
3		Display subsequent picture 30
4		Editing (still pictures) 55, 66, 77
5		Delete 30
6		Menu 14

Playback (Information Display)

The following monitor display shows information for the picture currently displayed.



1	Playback mode ¹	30, 68, 71, 75
2	File number and type	144
3	Date/time of recording.....	20
4	Print-order icon	103
5	Protect icon.....	124
Editing functions		
	Paint icon	57
	Quick retouch icon.....	60
	Stretch icon.....	61
	Perspective control icon.....	62
	D-Lighting icon	63
	Color options icon.....	64
	Small picture icon.....	65
	Voice memo icon	67
6		
7	Battery level indicator	24
8	START	85
9	W K T	85
10	Category icon in auto sort mode ²	71
11	Favorites folder icon in favorite pictures mode ²	78
12	10m° 10m 5m 3m TV PC 16:9	108
	TV 23° 23	83
	IN	25
	Current frame number/ total number of frames.....	30
	Movie length	85

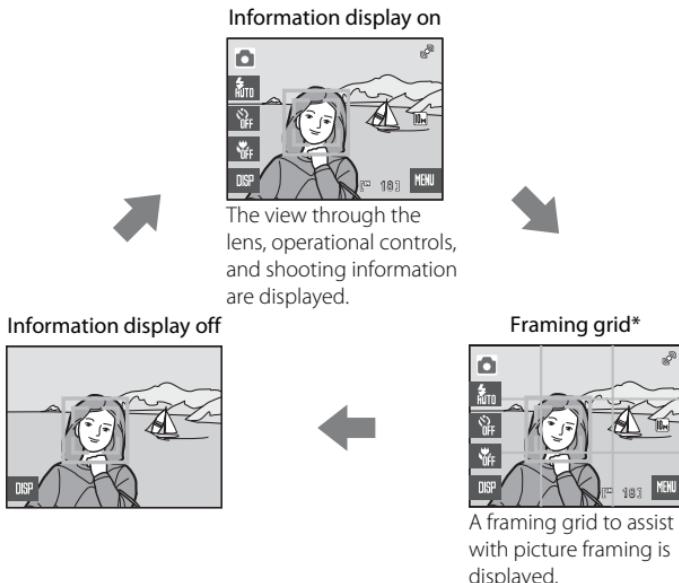
¹ Indicators displayed vary with current playback mode.

² The icon for the selected category in auto sort mode or the favorites folder currently selected in playback mode is displayed.

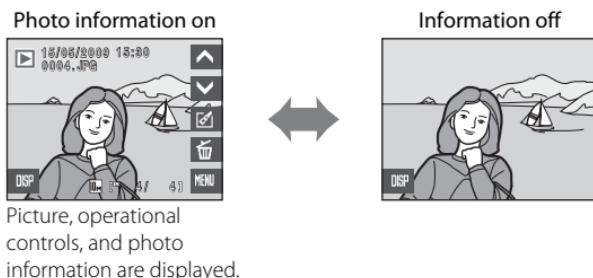
Photo Information and Controls Display

Tap **DISP** to toggle the information display on and off in the following order.

Shooting



Playback

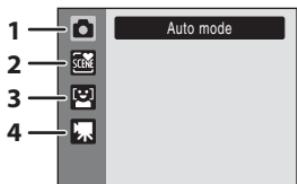


When the information display is on, photo information and all available controls are displayed. Monitor displays, with the information display on, are used for explanation purposes in this manual.

* A framing grid is displayed only in **■** (auto) mode.

The Shooting-mode Selection Menu

Press the  (shooting mode) button in shooting mode to display the shooting-mode selection menu (6). Tap a control in the monitor to change to the desired shooting mode.



1.  (auto) mode (24)
2.  Scene mode* (36)
3.  Smile mode (50)
4.  Movie mode (82)

* The icon displayed differs depending upon the last scene mode selected.

To return to the shooting mode while the shooting-mode selection menu is displayed, press the  button again.

The Playback-mode Selection Menu

Press the  (playback) button in playback mode to display the playback-mode selection menu (6). Tap a control in the monitor to change to the desired playback mode.



1.  Playback mode (30)
2.  Favorite pictures mode (75)
3.  Auto sort mode (71)
4.  List by date mode (68)

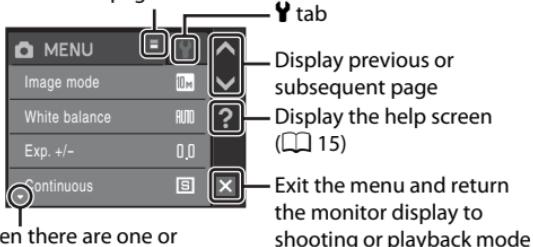
To return to the playback mode while the playback-mode selection menu is displayed, press the  button again.

The Menu Screen

Tap **MENU** to display the menu for the selected mode.

- Tap **Y** tab to display the setup menu.
- Tap **X** to exit the menu.

Displayed when the menu contains two or more pages



Displayed when there are one or more menu items to follow

Displayed when there are more previous menu items



Tap the menu item to proceed to the next set of options



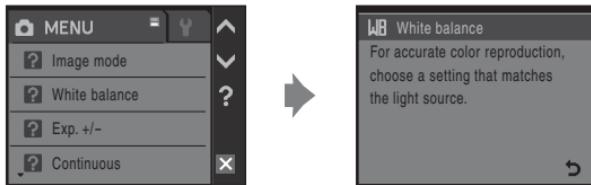
Tap the option to apply the selection

Return the monitor display to the previous screen

Help Display

Tap the control when **?** or **?** is displayed in the monitor to display the help selection screen. Tap a menu item or option to view a description of that feature or setting.

Tap **↶** to return display to the previous screen.



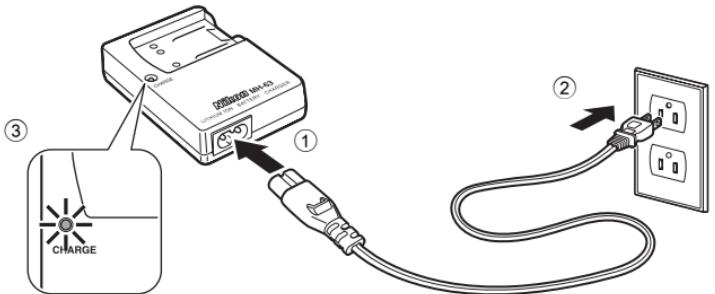
Charging the Battery

The camera uses a Rechargeable Li-ion Battery EN-EL10 (supplied).

Charge the battery with the Battery Charger MH-63 (supplied) before first use or when the battery is running low.

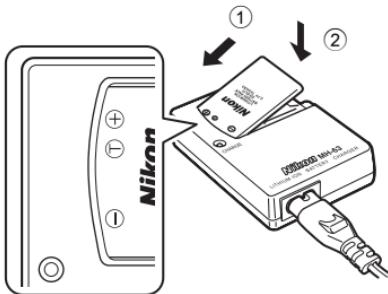
1 Connect the power cable.

Connect the power cable to the battery charger ① and insert the wall plug into a power outlet ②. The CHARGE lamp will light to show that the charger is on ③.



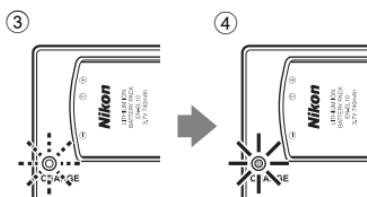
2 Charge the battery.

Insert the battery at an angle as shown ①, and set it in the battery charger ②.



CHARGE lamp starts blinking when battery is inserted ③. Charging is complete when lamp stops blinking ④.

About 100 minutes are required to charge a fully depleted battery.



The following chart explains CHARGE lamp status.

CHARGE lamp	Description
Blinks	Battery charging.
On	Battery fully charged.
Flickers	<ul style="list-style-type: none"> The battery is not inserted correctly. Remove the battery and reinsert it into the battery charger so that the battery is lying flat. Charge the battery indoors with an ambient temperature of 5 °C to 35 °C (41 °F to 95 °F) before use. The battery is faulty. Stop charging immediately, unplug the charger, and take both the battery and charger to your retailer or Nikon service representative.

3 Remove the battery and unplug the charger when charging is complete.

✓ Notes on the Battery Charger

- The supplied battery charger is for use only with the Rechargeable Li-ion Battery EN-EL10. Be sure to use only genuine Nikon brand rechargeable batteries.
- Be sure to read and follow the warnings for the battery charger on page iii before using the battery charger.

✓ Notes on the Battery

- Be sure to read and follow the warnings for the battery on page iii and the section, "The Battery" (☞ 146), before using the battery.
- If the battery is not used for an extended period, recharge it at least once every six months and run it flat before returning it to storage.

✓ AC Power Supply

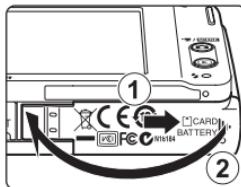
To power the camera continuously for extended periods, use an AC Adapter EH-62D (available separately from Nikon) (☞ 143). Do not, under any circumstances, use another make or model of AC adapter. Failure to observe this precaution could result in overheating or in damage to the camera.

Inserting the Battery

Insert a Rechargeable Li-ion Battery EN-EL10 (supplied) into your camera.

- Charge the battery before the first use or when the battery is running low (16).

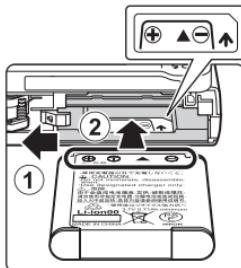
1 Open the battery-chamber/memory card slot cover.



2 Insert the battery.

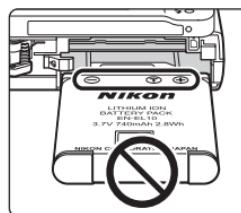
Confirm that the positive (+) and negative (-) terminals are oriented correctly as described on the label at the entrance of the battery chamber, and insert the battery.

Use the battery to push the orange battery latch in the direction indicated by the arrow ① and fully insert the battery ②. When the battery is fully inserted, the battery latch will lock it in place.

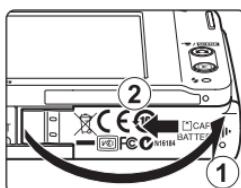


Inserting the Battery

Inserting the battery upside down or backwards could damage the camera. Be sure to check the battery is in the correct orientation.



3 Close the battery-chamber/memory card slot cover.

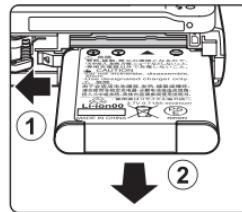


Removing the Battery

Turn the camera off and make sure that the power-on lamp and the monitor have gone out before opening the battery-chamber/memory card slot cover.

To eject the battery, open the battery-chamber/memory card slot cover and slide the orange battery latch in the direction indicated by the arrow ①. The battery can then be removed by hand ②.

- Note that the battery may become hot during use; observe due caution when removing the battery.



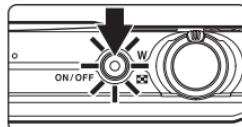
Turning On and Off the Camera

To turn on the camera, press the power switch. The power-on lamp (green) will light for a moment and the monitor will turn on.

To turn off the camera, press the power switch again.

When the camera is turned off, both the power-on lamp and monitor will turn off.

- If the camera is turned off, hold down the **▶** button to turn the camera on in playback mode (31).



Auto Power Off in Shooting Mode (Standby Mode)

If no operations are performed for about a minute (default setting), the monitor will turn off automatically and the camera will enter standby mode. If no operations are performed for another three minutes, the camera will turn off automatically (the auto off function).

Pressing the power switch, or the shutter-release button, while the monitor is off in standby mode will reactivate the monitor.

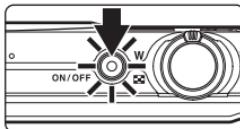
The time allowed to elapse from before the camera enters standby mode can be changed from the **Auto off** option (3136) in the setup menu (3127).

Setting Display Language, Date and Time

A language-selection dialog is displayed the first time the camera is turned on.

1 Press the power switch to turn on the camera.

The power-on lamp (green) will light for a moment and the monitor will turn on.



2 Tap the desired language.

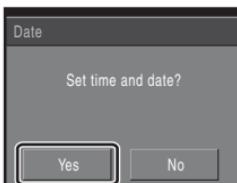
If the desired language is not displayed, tap **▲** or **▼** to view other language options.

For more information about operating the touch panel, see "Operating the Touch Panel" (☞ 7).



3 Tap Yes.

If **No** is tapped, the date and time will not be set.



4 Tap **◀** or **▶** to select your home time zone (☞ 132) and tap **OK**.



🔍 Daylight Saving Time

If daylight saving time is in effect, tap in the time zone selection screen displayed in step 4 to turn on the daylight saving time option.

When the daylight saving time option is enabled, glows yellow. To turn off the daylight saving time option, tap again.



5 Edit the date and time.

Tap ▲ or ▼ to edit the highlighted item.

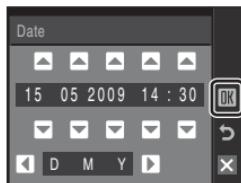


6 Tap ◀ or ▶ to choose the order in which the day, month and year are displayed



7 Tap OK.

The settings are applied and monitor display exits to shooting mode.



Changing the Date and Time

- Select **Date** from the **Date** item (130) in the setup menu (127) to change the current date and time and follow the procedure described in step 5 above.
- Select **Time zone** from the **Date** item in the setup menu to change the time zone and daylight saving time settings (130).

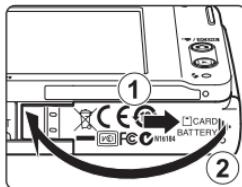
Inserting Memory Cards

Image, sound, and movie files are stored in the camera's internal memory (approximately 44 MB) or on removable Secure Digital (SD) memory cards (available separately) (143).

If a memory card is inserted in the camera, data are automatically stored on the memory card and data recorded to the memory card can be played back, deleted or transferred. Remove the memory card to store data in the internal memory, or play back, delete or transfer data from the internal memory.

- 1 Confirm the power-on lamp and the monitor are off and open the battery-chamber/memory card slot cover.

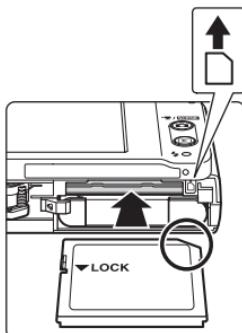
Be sure to turn off the camera before opening the battery-chamber/memory card slot cover.



- 2 Insert the memory card.

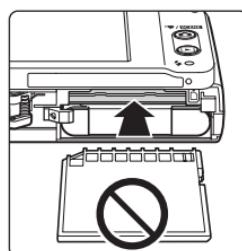
Slide the memory card in correctly until it clicks into place.

Close the battery-chamber/memory card slot cover.



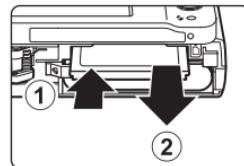
Inserting Memory Cards

Inserting the memory card upside down or backwards could damage the camera or the memory card. Be sure to check the memory card is in the correct orientation.



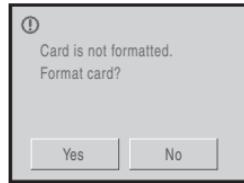
Removing Memory Cards

Before removing memory cards, turn the camera off and confirm that the power-on lamp and monitor are off. Open the battery-chamber/memory card slot cover and press the card in ① to partially eject the card. The card can then be removed by hand. Do not attempt to remove the card at an angle ②.



✓ Formatting Memory Cards

If the message at right is displayed, the memory card must be formatted before use (137). Note that **formatting permanently deletes all pictures and other data on the memory card**. Be sure to make copies of any pictures you wish to keep before formatting the memory card.



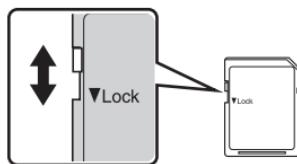
Tap **Yes**. When the confirmation dialog is displayed, tap **Yes**. To start formatting, tap **OK**.

- Do not turn the camera off or open the battery-chamber/memory card slot cover until formatting is complete.
- The first time you insert the memory cards used in other devices into the COOLPIX S230, be sure to format them using this camera (137).

✓ The Write Protect Switch

Memory cards are equipped with a write protect switch. When this switch is in the "lock" position, data cannot be written to, or deleted from, the memory card. If the switch is in the "lock" position, unlock it by sliding the switch to the "write" position to record or delete pictures, or to format the memory card.

Write protect switch



✓ Memory Cards

- Use only Secure Digital memory cards.
- Do not perform the following during formatting, while data is being written to or deleted from the memory card, or during data transfer to a computer. Failure to observe this precaution could result in the loss of data or in damage to the camera or memory card:
 - Take out the battery or memory card
 - Turn off the camera
 - Disconnect the AC adapter
- Do not format the memory card using a computer.
- Do not disassemble or modify.
- Do not drop, bend, or expose to water or strong physical shocks.
- Do not touch the metal terminals with your fingers or metal objects.
- Do not affix labels or stickers to the memory card.
- Do not leave in direct sunlight, closed vehicles or areas exposed to high temperatures.
- Do not expose to humidity, dust, or to corrosive gases.

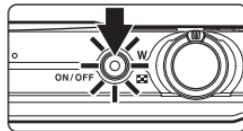
Step 1 Turn the Camera On and Select (Auto) Mode

This section describes how to take pictures in (auto) mode, an automatic, "point-and-shoot" mode recommended for first-time users of digital cameras.

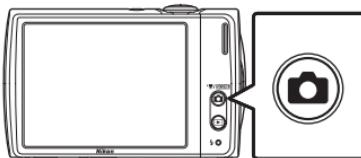
1 Press the power switch to turn on the camera.

The power-on lamp (green) will light for a moment and the monitor will turn on. The lens will also extend.

Proceed to step 4 when is displayed.

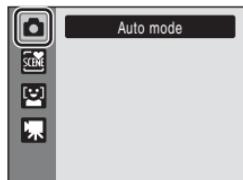


2 Press the button.



3 Tap in the monitor.

The camera enters (auto) mode.

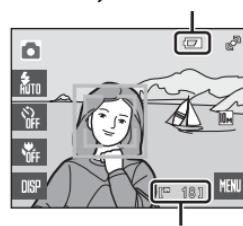


4 Check the battery level and the number of exposures remaining.

Battery Level

Monitor	Description
NO INDICATOR	Battery fully charged.
	Battery low. Prepare to charge or replace the battery.
	Battery exhausted. Cannot take pictures. Recharge or replace with a fully charged battery.

Battery level indicator

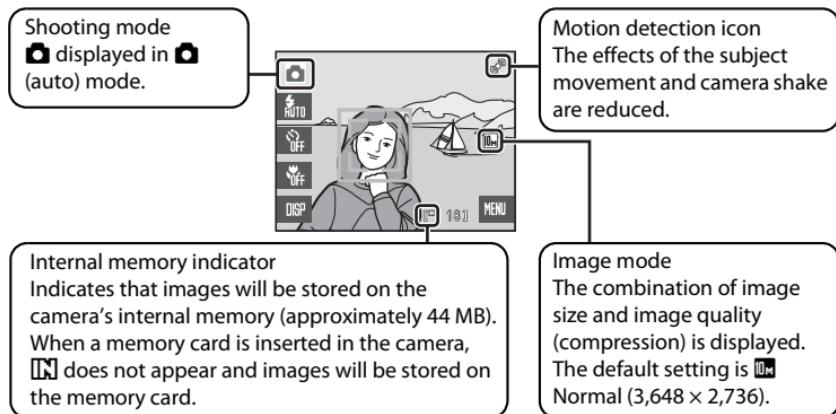


Number of exposures remaining

Number of Exposures Remaining

The number of pictures that can be stored depends on the capacity of the internal memory or memory card and image mode setting (109).

Indicators Displayed in (Auto) Mode



Tap to change the information displayed in the monitor (12).

When the monitor has turned off in standby mode to save power, press the power switch or the shutter-release button to reactivate it (136).

Functions Available in (Auto) Mode

In (auto) mode, macro mode (35) can be applied and pictures can be taken using the flash mode (32) and self-timer (34). Tapping in (auto) mode allows you to specify settings for all shooting menu items (107) depending upon the shooting situations.

Motion Detection

- When **Auto** (default setting) is selected for the **Motion detection** option (134) in the setup menu and the camera detects camera shake and subject movement, the camera increases shutter speed to reduce blurring.
- When the camera detects subject movement or camera shake and increases shutter speed, the motion detection icon will turn green.

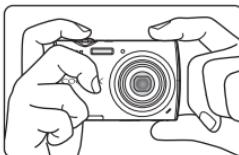
Electronic Vibration Reduction

When the flash mode (32) is set to (off) or (slow sync) with **Electronic VR** (128) in the setup menu set to **Auto**, the icon may appear in the monitor. The appearance of indicates shooting conditions in which the effects of camera shake can be pronounced. In these situations, the camera reduces the effects of camera shake in pictures before recording them.

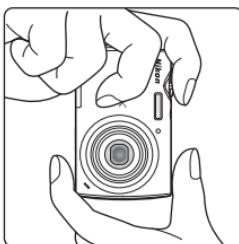
Step 2 Frame a Picture

1 Ready the camera.

Hold the camera steadily in both hands, keeping your fingers and other objects away from the lens, flash, microphone, and speaker.



When taking pictures in "tall" orientation, turn the camera so that the built-in flash is above the lens.



2 Frame the picture.

When the camera recognizes a face looking toward the camera, that face will be framed by a yellow double border (default setting). If more than one face is recognized, the face nearest to the camera will be framed by a double border and the rest by a single border.

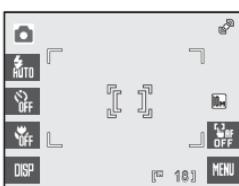
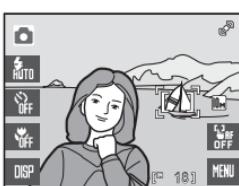


AF area will not appear when shooting pictures of subjects other than people, or framing a subject with which no face is recognized.

Touch AF/AE

Tap a subject in the monitor to select the focus area at which the camera should focus and set the exposure.

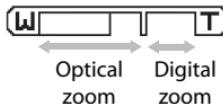
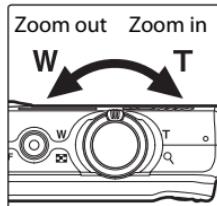
- or a double border will be displayed at the position tapped.
- To disable the focus area applied using the touch AF/AE function, tap .
- If a position at which focus cannot be acquired is tapped, will be displayed in the monitor. Tap another position within .



Using the Zoom

Use the zoom control to activate optical zoom. Rotate the zoom control to **T** to zoom in so that the subject fills a larger area of the frame, or **W** to zoom out, thus increasing the area visible in the frame.

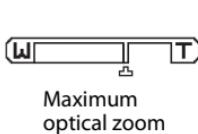
A zoom indicator is displayed at the top of the monitor when the zoom control is rotated.



Digital Zoom

When the camera is zoomed in to the maximum optical zoom position, rotating and holding the zoom control at **T** triggers digital zoom. The subject is magnified up to 4x the maximum optical zoom ratio.

Focus will be on the center of the screen (without active focus area display) when digital zoom is in effect.



Digital Zoom and Interpolation

Unlike optical zoom, digital zoom uses a digital imaging process known as interpolation to magnify images, resulting in slight deterioration of picture quality.

Interpolation is applied at zoom positions beyond . When zoom is increased beyond the  position, interpolation is initiated and the zoom indicator turns yellow to indicate that interpolation is being applied. The position of  moves to the right as image size decreases, allowing for confirmation of the zoom positions at which shooting without interpolation is possible at the current image mode setting.



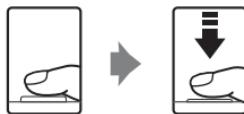
When an image size is small

Digital zoom can be disabled from the **Digital zoom** option ( 135) in the setup menu ( 127).

Step 3 Focus and Shoot

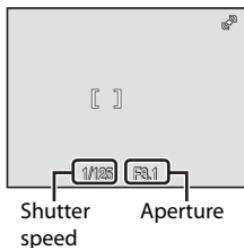
1 Press the shutter-release button halfway.

When a face looking toward the camera is recognized:
Camera will focus on the face surrounded by the double border active focus area. When the subject is in focus, the double border glows green.



Shutter speed Aperture

When shooting pictures of subjects other than people or framing a subject with which no face is recognized:
Camera automatically selects the focus area (one of nine) containing the subject closest to the camera. When the subject is in focus, the active focus area glows green.



Shutter speed Aperture

When digital zoom is used, the focus area is not displayed and the camera focuses at the center of the frame. Once focus has been acquired, the focus indicator will glow green.

When you press the shutter-release button halfway, the shutter speed and aperture values also appear.

Focus and exposure remain locked while the shutter-release button is pressed halfway. While the shutter-release button is pressed halfway, the double border for face recognition may blink, or the focus area or focus indicator may blink red. All of these cases indicate that the camera does not focus. Change the composition and press the shutter-release button halfway again.

See "AF Area Mode" (116) or "Face Priority" (118) for more information about Face Priority.



2 Press the shutter-release button the rest of the way down.

The shutter is released and the picture will be recorded to the memory card or internal memory.



During Recording

While pictures are being recorded, the number of exposures remaining will blink. ***Do not open the battery-chamber/memory card slot cover*** while pictures are being recorded. Cutting power or removing the memory card in these circumstances could result in loss of data or in damage to the camera or card.

Autofocus

Autofocus may not perform as expected in the following situations. In some rare cases, the subject may not be in focus despite the fact that the active focus area and the focus indicator glow green:

- Subject is very dark
- Objects of sharply differing brightness are included in the scene (e.g. the sun is behind the subject and is in deep shadow)
- No contrast between the subject and surroundings (e.g. when the subject is standing in front of a white wall, wearing a white shirt)
- Several objects are at different distances from the camera (e.g. the subject is inside a cage)
- Subject is moving rapidly

In the situations noted above, try pressing the shutter-release button halfway to refocus several times, or focus on another subject and use focus lock (117). When using focus lock, be sure that the distance between the camera and the subject with which focus was locked is the same as that for the actual subject.

Blink Warning

If the blink warning screen is displayed shortly after a picture is taken in face priority mode, the eyes of human subjects may have been closed when the picture was taken. Check the picture and decide whether or not another picture should be taken.

- The portrait subject, whose eyes may have been closed when the picture was taken, will be framed by a yellow border in the blink warning screen.
- Tap the picture, or press the shutter-release button, to return to shooting mode.



See "Blink Warning" (138) or "Operating the Blink Warning Screen" (139) for more information.

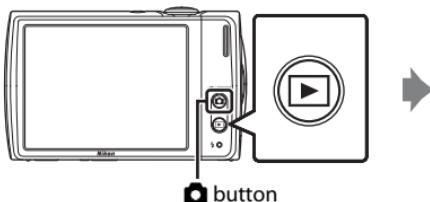
Flash

If the subject is poorly lit, the flash may fire by pressing the shutter-release button all the way down (32).

Step 4 Playing Back and Deleting Pictures

Playing Back Pictures (Playback Mode)

Press the button



Internal memory indicator

The last picture taken will be displayed in full-frame playback mode.

Drag the current picture to display previous or subsequent picture.

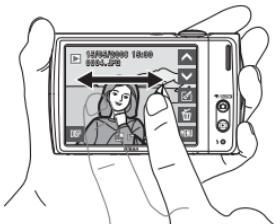
Previous or subsequent picture can also be viewed by tapping or .

Pictures may be displayed briefly at low resolution while being read from the memory card or internal memory.

Press the button or the shutter-release button to switch to shooting mode.

When playing back pictures stored on the camera's internal memory, appears. When a memory card is inserted in the camera, does not appear and images stored on the memory card are played back.

Tap to toggle the displayed operational control and information display on and off (12).



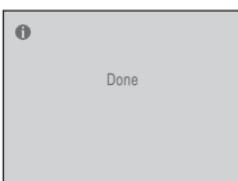
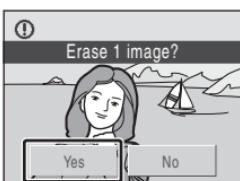
Deleting Pictures

- 1 Tap to delete the picture currently displayed in the monitor.



- 2 Tap Yes.

To exit without deleting the picture, tap No.



Options Available in Playback Mode

The following options are available in full-frame playback mode.

Option	Use	Description	
Playback zoom	T (Q)	Rotate the zoom control to T to enlarge the picture up to 10x. Tap  to return to full-frame playback mode.	54
View thumbnails	W (Q)	Rotate the zoom control to W to display 4, 9 or 16 picture thumbnails.	52
Edit pictures		Tap  to display the retouch menu.	55
Toggle operational control display and information display on and off		Tap  to toggle operational control display and information display on and off.	12
Change playback mode		Press the  button to display the playback-mode selection menu and change to list by date, auto sort, or favorite pictures mode.	68, 71, 78
Switch to shooting mode		Press the  button or the shutter-release button to switch to the last shooting mode selected in the shooting-mode selection menu.	30
			

Pressing the Button to Turn On the Camera

When the camera is off, holding down the  button will turn the camera on in playback mode. The lens will not extend.

Viewing Pictures

- Pictures stored in the internal memory can only be viewed when no memory card is inserted.
- When pictures in which a face was detected during shooting are displayed in full-frame playback, the pictures may be automatically rotated for playback display, depending upon the orientation of the detected face.
- When the monitor has turned off in standby mode to save power, press the  button or the power switch to reactivate it (136).

Deleting Multiple Pictures

Multiple pictures can be deleted from the **Delete** option (124) in the playback menu (121), the list by date menu (70), the auto sort menu (74), or the favorite pictures menu (80).

Using the Flash

The flash has a range of 0.6-4.6 m (2-15 ft.) when the camera is zoomed out all the way. With maximum optical zoom applied, the range is 0.6-2.5 m (2-8 ft.) (when **ISO sensitivity** is set to **Auto**). The following flash modes are available.

AUTO Auto

Flash fires automatically when lighting is poor.

② Auto with red-eye reduction

Reduce "red-eye" in portraits (33).

⊕ Off

Flash will not fire even when lighting is poor.

⚡ Fill flash

Flash fires when a picture is taken. Use to "fill-in" (illuminate) shadows and backlit subjects.

¶ Slow sync

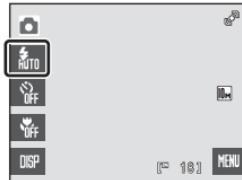
AUTO (auto) is combined with slow shutter speed.

Flash illuminates main subject; slow shutter speeds are used to capture background at night or under dim light.

Setting the Flash Mode

1 Tap the flash mode control.

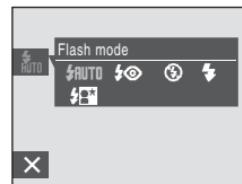
The flash menu is displayed.



2 Tap the desired flash mode control.

The icon for the selected flash mode is displayed at the top of the monitor.

When  is tapped, the menu will close and the monitor display will return to shooting mode without changing the flash mode.



✓ Shooting When Lighting is Poor and the Flash is Disabled (⑨)

- Use of a tripod is recommended to stabilize the camera during shooting and avoid the effects of camera shake.
- The **ISO** indicator is displayed when the camera automatically increases sensitivity. Pictures taken when **ISO** is displayed may be slightly mottled.

✓ Note on Using the Flash

When using the flash, reflections from dust particles in the air may appear as bright spots in pictures. To reduce these reflections, set the flash to **Off**.

setFlash The Flash Lamp

The flash lamp indicates flash status when the shutter-release button is pressed halfway.

- On: Flash will fire when picture is taken.
- Blinks: Flash charging. Wait a few seconds and try again.
- Off: Flash will not fire when picture is taken.

If the battery is low, the monitor display will turn off, and remain off, until the flash is fully charged.



setFlash The Flash Mode Setting

The default flash mode setting varies with shooting mode.

- **camera** (auto) mode: **SAUTO** (auto)
- **SCENE** (scene): varies with the selected scene mode (37)
- **smile**: fixed at **Off** (off) when **On** is selected for **Blink proof**, **SAUTO** (auto) when **Off** is selected for **Blink proof** (51)

The flash mode setting applied in **camera** (auto) mode is stored in the camera's memory even after the camera is turned off, and reapplied the next time **camera** (auto) mode is selected.

setFlash Red-eye Reduction

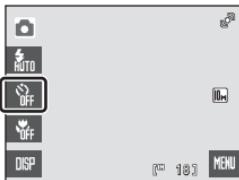
This camera uses advanced red-eye reduction ("In-Camera Red-Eye Fix"). The flash fires several times at low intensity (pre-flash) before the main flash, reducing "red eye." The camera then analyzes the picture; if red-eye is detected, the affected area will be processed to further reduce red-eye before the picture is saved. Note that because there is a slight lag between the shutter-release button being pressed and the picture being shot, this mode is not recommended when a quick shutter response is required. The time before the next picture can be shot also increases slightly. Advanced red-eye reduction may not produce the desired results in all situations. In extremely rare instances, areas not subject to red-eye may be affected by advanced red-eye reduction processing; in these cases, choose another mode and try again.

Taking Pictures with the Self-timer

The camera is equipped with a ten-second and two-second timer for self-portraits. This feature is useful for reducing the effects of camera shake that occurs when pressing the shutter-release button. When using the self-timer, use of a tripod is recommended.

1 Tap the self-timer control.

The self-timer menu is displayed.



2 Tap $\textcircled{S} 10\text{s}$ or $\textcircled{S} 2\text{s}$.

$\textcircled{S} 10\text{s}$ (ten seconds): Suited for important occasions (such as weddings)

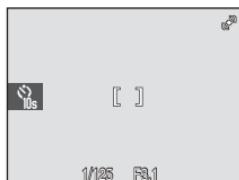
$\textcircled{S} 2\text{s}$ (two seconds): Suited for preventing camera shake
The mode selected for self-timer is displayed.

When \texttimes is tapped, the menu will close and the monitor display will return to shooting mode without changing the self-timer setting.



3 Frame the picture and press the shutter-release button halfway.

Focus and exposure will be set.



4 Press the shutter-release button the rest of the way down.

The self-timer starts, and the number of seconds remaining before the shutter is released is displayed in the monitor. The self-timer lamp blinks while the timer is counting down. About one second before the shutter is released, the lamp remains lit and stops blinking.

When the shutter is released, the self-timer turns off.

To stop the timer before a picture is taken, press the shutter-release button again.

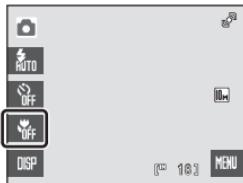


Macro Mode

Macro mode is used for taking pictures of objects as close as 10 cm (4 in.). Note that the flash may be unable to light entire subject at distances of less than 60 cm (2 ft.).

1 Tap the macro mode control.

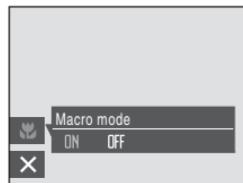
The macro menu is displayed.



2 Tap ON.

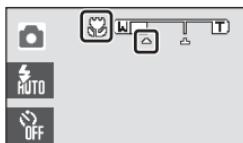
The macro mode icon (✿) is displayed.

When X is tapped, the menu will close and the monitor display will return to shooting mode without changing the macro mode setting.



3 Rotate the zoom control to frame the picture.

The camera can focus at a distance of 10 cm (4 in.) at the zoom position at which ✿ glows green (the zoom indicator is positioned before △).



Macro Mode

In macro mode, the camera focuses continuously until the shutter-release button is pressed halfway to lock focus and exposure.

The Macro Mode Setting

The macro mode setting applied in (auto) mode is stored in the camera's memory even after the camera is turned off, and reapplied the next time (auto) mode is selected.

Shooting in Scene Mode

Camera settings are automatically optimized for the selected subject type. The following scene modes are available.

Scene auto selector	Portrait	Landscape	Sports	Night portrait
Party/indoor	Beach/snow	Sunset	Dusk/dawn	Night landscape
Close-up	Food	Museum	Fireworks show	Copy
Draw	Backlight	Panorama assist	Voice recording*	

* See "Voice Recordings" (86) for details.

Setting the Scene Mode

1 Press the button in shooting mode to display the shooting-mode selection menu and tap the scene mode control.

The icon for the last scene mode selected is displayed. The default setting is (Scene auto selector).



2 Tap the desired scene control.

Tap to display the help selection screen. Tap a scene icon to view a description of that scene mode.

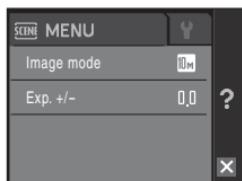


3 Frame the subject and take the picture.



Image Mode

When is tapped in scene mode, the scene menu is displayed and the **Image mode** (108) and **Exp.+/-** (112) options can be adjusted. Changes made to these settings apply to all shooting modes (except for movie menu).



Features

Scene auto selector

By simply framing a picture, the camera automatically selects the optimum scene mode. See "Shooting in the Scene Mode Selected by the Camera (Scene Auto Selector)" (43) for more information.



- 1 The camera automatically selects the optimum flash mode setting for the scene mode it has selected. Can be changed to .
- 2 Other settings can be selected.
- 3 Changed to On when the camera selects **Close-up** scene mode.

Portrait

Use this mode for portraits in which the main subject stands out clearly. Portrait subjects exhibit smooth, natural-looking skin tones.

See "Shooting in Portrait/Night Portrait Scene Mode" (44) for more information.



* Other settings can be selected.

Landscape

Use this mode for vivid landscapes and cityscapes.

- Camera focuses at infinity. The focus area or focus indicator (28) always glows green when the shutter-release button is pressed halfway. Note, however, that objects in the foreground may not always be in focus.



* Other settings can be selected.

Icons Used for Descriptions

The following icons are used for descriptions in this section: , flash mode (32); , self-timer (34); , macro mode (35).

Shooting in Scene Mode

Sports

Use this mode for dynamic action shots that freeze the action in a single shot and record motion in a series of pictures.

- The camera focuses continuously until focus is locked by pressing the shutter-release button halfway.
- While the shutter-release button is held down, pictures are taken at rate of up to about 1.2 frames per second (fps) when image mode is set to **Normal (3648)**. This rate is maintained for up to 6 pictures.
- The maximum frame rate with continuous shooting may vary depending upon the current image mode setting and the memory card used.
- Motion detection** (134) does not function.



			Off		Off
--	--	--	-----	--	-----

Night portrait



Use this mode to achieve a natural balance between the main subject and background lighting in portraits taken at night. See "Shooting in Portrait/Night Portrait Scene Mode" (44) for more information.

- Motion detection** (134) does not function.



			Off ²		Off
--	--	--	------------------	--	-----

1 Fill flash with slow sync and red-eye reduction.

2 Other settings can be selected.

Party/indoor

Captures the effects of candlelight and other indoor background lighting.

- Camera focuses on subject in the center of the frame.
- As pictures are easily affected by camera shake, hold the camera steadily. Use of a tripod is recommended for dark locations.



			Off ²		Off
--	--	--	------------------	--	-----

1 The flash may change to slow sync with red-eye reduction. Other settings can be selected.

2 Other settings can be selected.

For those scene modes with , use of a tripod is recommended.

For those scene modes with , noise reduction is carried out automatically so the time taken to save an image will be longer than usual.

 Beach/snow

Captures the brightness of such subjects as snowfields, beaches, or sunlit expanses of water.

- Camera focuses on subject in the center of the frame.



			Off*		Off
--	--	--	------	--	-----

* Other settings can be selected.

 Sunset

Preserves the deep hues seen in sunsets and sunrises.

- Camera focuses on subject in the center of the frame.



			Off*		Off
--	--	--	------	--	-----

* Other settings can be selected.

 Dusk/dawn

Preserves the colors seen in the weak natural light before sunrise or after sunset.

- Camera focuses at infinity. The focus area or focus indicator (28) always glows green when the shutter-release button is pressed halfway. Note, however, that objects in the foreground may not always be in focus.

- **Motion detection** (134) does not function.

			Off*		Off
--	--	--	------	--	-----

* Other settings can be selected.

Shooting in Scene Mode

Night landscape



Slow shutter speeds are used to produce stunning night landscapes.

- Camera focuses at infinity. The focus area or focus indicator (28) always glows green when the shutter-release button is pressed halfway. Note, however, that objects in the foreground may not always be in focus.
- **Motion detection** (134) does not function.

				Off*		Off
--	--	--	--	------	--	-----

* Other settings can be selected.

Close-up



Photograph flowers, insects and other small objects at close range.

- Macro mode (35) will be turned on and the camera automatically zooms to the position at the closest distance at which the camera can focus.
- The camera can focus at a distance of 10 cm (4 in.) at the zoom position at which glows green (the zoom indicator is positioned before). The closest possible shooting position may vary according to the zoom position.
- The touch panel can also be tapped to choose an object on which the camera will focus (26).
- The camera focuses continuously until focus is locked by pressing the shutter-release button halfway.

				Off*		On
--	--	--	--	------	--	----

* Other settings can be selected. Note that the flash may be unable to light entire subject at distances of less than 60 cm (2 ft.).

Food



Use when taking pictures of food. See "Taking Pictures in Food Mode" (45) for details.

- The touch panel can also be tapped to choose an object on which the camera will focus (26).

				Off*		On
--	--	--	--	------	--	----

* Other settings can be selected.

: For those scene modes with , use of a tripod is recommended.

: For those scene modes with , noise reduction is carried out automatically so the time taken to save an image will be longer than usual.

 **Museum**

Use indoors where flash photography is prohibited (for example, in museums and art galleries) or in other settings in which you do not want to use the flash.

- Camera focuses on subject in the center of the frame.
- BSS (best shot selector) can be used to shoot (113).
- **Motion detection** (134) does not function.



			Off*		Off*
--	--	--	------	--	------

* Other settings can be selected.

 **Fireworks show**

Slow shutter speeds are used to capture the expanding burst of light from a firework.

- Camera focuses at infinity. The focus indicator (28) always glows green when the shutter-release button is pressed halfway. Note, however, that objects in the foreground may not always be in focus.
- **Motion detection** (134) does not function.

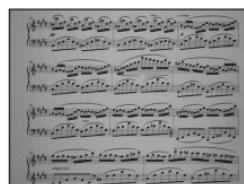


			Off		Off
--	--	--	-----	--	-----

 **Copy**

Provides clear pictures of text or drawings on a white board or in print.

- Camera focuses on subject in the center of the frame.
- Use macro mode (35) to focus at short ranges.
- Colored text and drawings may not show up well.



			Off*		Off*
--	--	--	------	--	------

* Other settings can be selected.

 **Draw**

Write a memo, or draw a picture, on the touch panel display and save it as an image. See "Using the Draw Option" (47) for more information.

	-		-		-
--	---	--	---	--	---

Shooting in Scene Mode

Backlight

Use when light is coming from behind subject, throwing features or details into shadow. The flash fires automatically to "fill in" (illuminate) shadows.

- Camera focuses on subject in the center of the frame.
- **Motion detection** (134) does not function.



* Other settings can be selected.

Panorama assist



Use when taking a series of pictures that will later be joined to form a single panorama using the supplied Panorama Maker software. See "Taking Pictures for a Panorama" (48) for details.



* Other settings can be selected.

Shooting in the Scene Mode Selected by the Camera (Scene Auto Selector)

By simply framing a picture, the camera automatically selects the optimum scene mode for simpler shooting.

When the camera is aimed at a subject in scene auto selector scene mode, the camera automatically selects one of the following scene modes:

- Auto (24)
- Portrait (37)
- Landscape (37)
- Night portrait (38)
- Night landscape (40)
- Close-up (40)
- Backlight (42)

1 Press the button in shooting mode to display the shooting-mode selection menu and choose (Scene auto selector) (36).

The camera enters scene auto selector scene mode.



2 Frame the subject and take the picture.

When the camera automatically selects a scene mode, the shooting mode icon changes to that for the scene mode currently enabled.

: Auto

: Night landscape

: Portrait

: Close-up

: Landscape

: Backlight

: Night portrait



When more than one face is framed by a border, tap a border to choose the face on which the camera focuses.

Press the shutter-release button halfway to set focus and exposure.

Press the shutter-release button the rest of the way down to take the picture.

Note on Scene Auto Selector Scene Mode

Depending upon shooting conditions, the camera may not select the desired scene mode. Should this occur, switch to (auto) mode (24) or select the desired scene mode manually (36).

Flash Mode in Scene Auto Selector Scene Mode

(Auto) (default setting) and (Off) flash mode settings can be applied (32).

- When (Auto) is applied, the camera automatically selects the optimum flash mode setting for the scene mode it has selected.
- When (Off) is applied, the flash does not fire, regardless of shooting conditions.

Functions Restricted in Scene Auto Selector Scene Mode

- Digital zoom is not available.
- Macro mode is disabled. The macro mode turns on when the camera selects **Close-up** scene mode.
- **AF area mode** (116) is set to **Auto** in (Close-up) mode.

Shooting in Portrait/Night Portrait Scene Mode

1 Press the  button in shooting mode to display the shooting-mode selection menu and choose  (Portrait) or  (Night portrait) (46 36).

The camera enters portrait or night portrait scene mode.



2 Frame the picture.

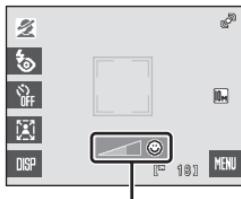
When a face looking toward the camera is recognized, a yellow double border (focus area) will be displayed around that face.

When the camera detects more than one face, a double border will be displayed around the face closest to the camera, and single borders around the others. When a face framed by a single border is tapped, the single border changes to a double border and the camera will focus on that face.

If no face is recognized, the camera will focus on the subject at the center of the frame.

The smile indicator is displayed in **Portrait** scene mode. If the camera detects a smiling face of the human subject framed by a double border, the smile indicator increases or decreases. The smile indicator is not displayed when the camera selects **Portrait** in **Scene auto selector** scene mode.

Portrait one-touch zoom (46 45) is available.



Smile indicator

3 Press the shutter-release button to take the picture.

Focus is locked when the shutter-release button is pressed halfway, and a picture is taken when the shutter-release button is pressed the rest of the way down.

When the camera is unable to focus, the focus area blinks red. Change the composition and press the shutter-release button halfway again.

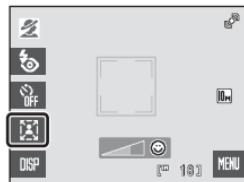
Notes on Portrait/Night Portrait Scene Mode

- The flash mode in **Night portrait** scene mode is fixed to fill flash with slow sync and red-eye reduction. **Motion detection** (46 134) does not function, regardless of the setting applied.
- Macro mode (46 35) is not available.
- Digital zoom is not available.

Portrait One-Touch Zoom

When a face is recognized in **Portrait** or **Night portrait** scene mode, simply tap  to change the zoom position for the portrait subject whose face is framed by the double border as follows:

waist up zoom → bust up zoom → face zoom



- The zoom position can be further adjusted by rotating the zoom control after it has been changed using the portrait one-touch zoom function.
- Zoom positions available vary with shooting distance.
- Portrait one-touch zoom is not available when the camera selects **Portrait** or **Night portrait** in **Scene auto selector** scene mode (37).

Taking Pictures in Food Mode

Use this mode to take pictures of food.

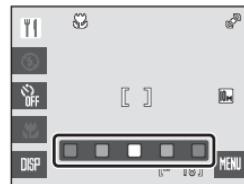
- Press the  button in shooting mode to display the shooting-mode selection menu and choose  (Food) (36).

Macro mode (35) will be turned on and the camera automatically zooms to the position at the closest distance at which the camera can focus.



- Tap the white balance control to choose the desired white balance.

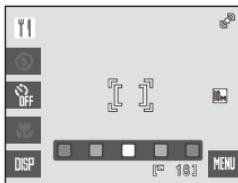
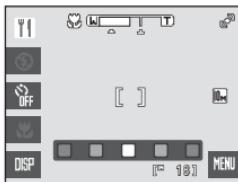
The amount of red or blue tint can be adjusted.



3 Frame the picture.

The camera can focus at distances as close as 10 cm (4 in.) at the wide-angle zoom position at which and the zoom indicator glow green (the zoom indicator is before). The closest distance at which the camera can focus varies depending upon zoom position.

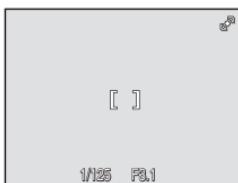
Tap the subject on which the camera should focus to select the active focus area (26).



4 Press the shutter-release button to take the picture.

Focus is locked when the shutter-release button is pressed halfway, and a picture is taken when the shutter-release button is pressed the rest of the way down.

When the camera is unable to focus, the focus area blinks red. Change the composition and press the shutter-release button halfway again.



Note on Food Mode

Flash mode is disabled. Macro mode setting (35) is fixed at **ON**.

White Balance Setting in Food Mode

- Increasing the amount of red or blue will decrease illumination effects.
- Changing white balance in food mode will not affect white balance in the shooting menu (110).
- The white balance setting applied in food mode is stored in the camera's memory even after the camera is turned off, and reapplied the next time food mode is selected.

Using the Draw Option

Write a memo, or draw a picture, on the touch panel display and save it as an image. The image is saved at an image size setting of TV screen (640 × 480).

- 1 Press the  button in shooting mode to display the shooting-mode selection menu and choose  (Draw) (36).



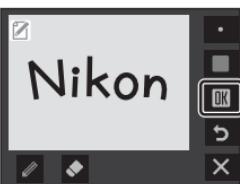
- 2 Draw pictures or write a memo.

Tap  to write text or draw pictures, and tap  to erase text or pictures (58).



- 3 Tap .

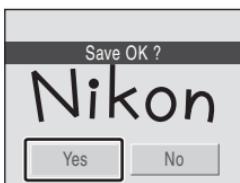
Tap , before tapping , to undo the last operation applied using the pen or erase tool (up to the last five operations can be undone).



- 4 Tap Yes.

The memo is saved.

To cancel saving the memo, tap No.



Taking Pictures for a Panorama

The camera focuses on the subject in the center of frame. Use a tripod for the best results.

- Press the  button in shooting mode to display the shooting-mode selection menu and choose  (Panorama assist) (36).

Panorama direction icons () are displayed to show the direction in which pictures will be joined.



- Tap the direction.

Select how pictures will be joined together in the completed panorama; right () , left () , up () or down () .

The panorama direction can be reselected by tapping the panorama direction icon again.

Apply flash mode (32), self-timer (34), and macro mode (35) settings with this step, if necessary.



- Take the first picture.

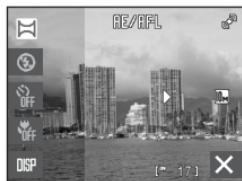
One third of the last picture taken will be displayed partially transparent.



- Take the next picture.

Compose the next picture so that one-third of the frame overlaps the previous picture.

Repeat until you have taken the necessary number of pictures to complete the scene.



5 Tap when shooting is complete.

The camera returns to step 2.



Panorama Assist

Flash mode, self-timer, and macro mode settings cannot be adjusted after the first picture is taken. Pictures cannot be deleted, nor can zoom, image mode setting (108), or exposure compensation (112) be adjusted until all pictures in the series have been taken.

Shooting for the panorama series is terminated if the auto off function (136) initiates standby mode during shooting. Setting the time allowed to elapse before the auto off function is enabled to a longer setting is recommended.

AE/AFL Indicator

AE/AFL is displayed to indicate that exposure, white balance, and focus have been locked at the values set with the first shot. All pictures taken in a panorama series have the same exposure, white balance, and focus settings.



Panorama Maker

Install Panorama Maker from the supplied Software Suite CD. Transfer pictures to a computer (93) and use Panorama Maker (96) to join them in a single panorama.

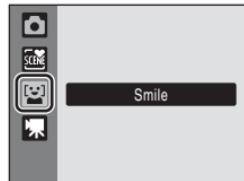
More Information

See "Image/Sound File and Folder Names" (144) for more information.

Shooting in Smile Mode

The camera detects a smiling face to shoot the face automatically.

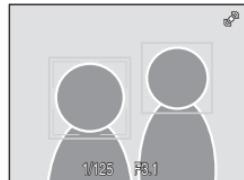
- Enter smile mode by pressing the  button in shooting mode and tapping .



- Frame a picture.

Point the camera at the subject.

If the camera recognizes a face looking toward the camera, the face will be framed by a yellow double border in the focus area, and when the face comes into focus, the double border will glow green for a moment and the focus will be locked.



Up to three faces can be detected. When the camera detects more than one face, the face closest to the center of the frame is framed by a double border and the others by single borders. When a face framed by a single border is tapped twice, the camera focuses on the position indicated by tapping the touch panel.

- The shutter is automatically released.

If the camera detects that the face framed by the double border is smiling, the shutter is automatically released.

When the camera detects a face, the self-timer lamp (4) blinks. Immediately after the shutter is released with detection of a smiling face, the self-timer lamp flickers.

Each time the shutter is released, the camera automatically take pictures using the recognizing face and the detecting smiling face features repeatedly.

At default settings, the **Blink proof** function is activated (51).

- Exit smile mode by pressing the  button.

Change to another shooting mode.



Face Priority and Smiling Face Detection Features

When the camera is pointed at a face looking toward the camera in smile mode, the face is automatically recognized and the smiling face of the recognized one is detected.

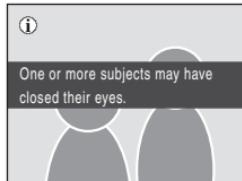
- In some shooting conditions, face recognition does not work and faces cannot be detected.
- See "Face Priority" (118) for more information.

Blink Proof Function

The blink proof function is available in smile mode.

Each time a picture is taken, the camera automatically takes two consecutive shots. Of the two shots, the shot in which the subject's eyes are open takes priority and is saved.

- If the camera detects that it has saved a picture in which the subject's eyes may have closed, the warning shown at right is displayed for a few seconds.
- To enable or disable the blink proof function, tap **MENU** in smile mode to display the smile menu and select **Blink proof**.
- The current setting is displayed in the monitor (109).



Operation of Shutter-Release Button

Press the shutter-release button to take pictures.

- When the face priority takes effect, the focus is locked to the recognized face and the shutter is released.
- When the face priority doesn't take effect, the camera focuses on subject in the center of the frame.

Functions Available in Smile Mode

- Flash is disabled when **On** is selected for the **Blink proof** option. When **Off** is selected for the **Blink proof** option, flash mode (102) is set to **AUTO** (auto). Other flash modes can be selected.
- Digital zoom is not available.
- When **MENU** is tapped, the smile menu is displayed and the **Image mode** (108) and **Exp.+/-** (112) options can be adjusted. Change made to the image mode setting applies to all shooting modes (except the movie menu).

Shooting in Smile Mode

In smile mode, the auto power off function (136) is activated and the camera turns off when either of the situations indicated below persists and no other operations are performed.

- The camera does not recognize a face
- The camera recognized the face but cannot detect a smiling face

More Information

See "Autofocus" (29) for more information.

Viewing Multiple Pictures: Thumbnail Playback

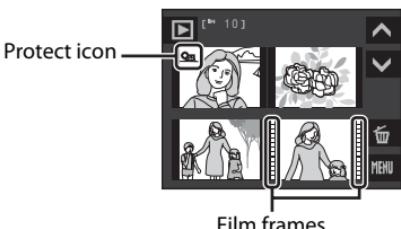
Rotate the zoom control to **W** (☒) in full-frame playback mode (30) to display pictures in “contact sheets” of thumbnail images. The following operations are available while thumbnails are displayed.



To	Use	Description	
Scroll the screen	▲, ▼	Tap ▲ or ▼.	-
Increase the number of picture thumbnails displayed	W (☒)	Rotate the zoom control to W (☒) to increase the number of the picture thumbnails displayed: 4 → 9 → 16	-
Decrease the number of pictures displayed	T (○)	Rotate the zoom control to T (○) to decrease the number of picture thumbnails displayed: 16 → 9 → 4. Rotate the zoom control to T (○) in 4-picture thumbnail display to return to full-frame playback mode.	-
Switch to full-frame playback mode	-	Tap the picture to display the picture full frame.	-
Delete pictures	☒	Tap ☒ to select pictures for deletion. Tap the desired pictures to delete and tap OK .	-
Switch to shooting mode	◀ (camera icon) ◀ (down arrow icon)	Press the camera button or the shutter-release button to return to the last shooting mode selected.	30

Thumbnail Playback Mode Display

For pictures which the **Protect** (124) setting has been configured, the icon in the illustration to the right appears. Movies are displayed as film frames.

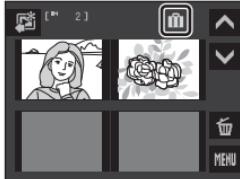


Thumbnail Display in Auto Sort and Favorite Pictures Mode

- When thumbnails are displayed in auto sort mode (71), the category icon of the pictures will appear at the right top of the screen.



- When thumbnails are displayed in favorite pictures mode (75), the favorite pictures icon will appear at the right top of the screen.



Taking a Closer Look: Playback Zoom

Rotating the zoom control to **T (Q)** during full-frame playback mode (□ 30) zooms the current picture, with the center of the picture displayed in the monitor.

The guide at lower right shows which portion of the picture is enlarged.

The following operations can be performed while pictures are zoomed in.



To	Use	Description	□
Zoom in	T (Q)	Zoom increases each time the zoom control is rotated to T (Q) , to a maximum of 10x.	-
Zoom out	W (☒)	Zoom decreases each time the zoom control is rotated to W (☒) . When the magnification ratio reaches 1x, the display returns to full-frame playback mode.	-
Change the display area	-	The area of the picture currently displayed can be changed by dragging the picture.	-
Delete pictures	☒	Tap ☒ to delete the picture.	30
Switch to full-frame playback	✗	Tap ✗ to switch to full-frame playback.	30
Crop picture	✂	Tap ✂ to crop current picture to contain only the portion visible in the monitor.	56
Switch to shooting mode	◀	Press the ◀ button or the shutter-release button to return to the last shooting mode selected.	30
	↓		

Pictures Taken in Face Priority

When zooming in (playback zoom) on a picture taken using the face-priority function (□ 118) by rotating the zoom control to **T (Q)**, the picture will be enlarged with the face detected with shooting at the center of the monitor.



- If more than one face was detected, the picture will be enlarged with the face on which focus was acquired at the center of the monitor. Tap **[]** or **[]** to display other faces that were detected.
- When the zoom control is rotated to **T (Q)** or **W (☒)** to adjust the zoom ratio, the center of the picture (normal playback zoom display), rather than the face, is displayed at the center of the monitor.

Editing Pictures

Use the COOLPIX S230 to edit pictures in-camera and store them as separate files (144). The editing features described below are available.

Editing function	Description
Crop (56)	Enlarge the image or refine the composition and create a copy containing only the portion visible in the monitor.
Paint (57)	Draw pictures or add decorations on the pictures.
Quick retouch (50)	Easily create retouched copies in which contrast and saturation have been enhanced.
Stretch (61)	Stretch the current picture horizontally to make the subject appear thinner or wider, and save the stretched picture as a copy.
Perspective control (62)	Control the sense of perspective in the picture taken in landscape orientation. Apply perspective control similar to that available with shift lenses. This option is suited to pictures of buildings or architecture.
D-Lighting (63)	Create a copy of the current picture with enhanced brightness and contrast, brightening dark portions of the picture.
Color options (64)	Make colors more vivid or record pictures in monochrome.
Small picture (65)	Create a small copy of pictures suitable for use on web pages or as e-mail attachments.

Picture Editing

- Pictures taken at an **Image mode** setting of **16:9 16:9 (3584)** (108) cannot be edited.
- The COOLPIX S230 editing functions are not available for pictures taken with non-COOLPIX S230 digital cameras.
- If a copy created using the COOLPIX S230 is viewed on a different digital camera, the picture may not be displayed or may not be transferred to a computer.
- Editing functions are not available when there is not enough free space in the internal memory or on the memory card.

Restrictions on Picture Editing

- Copies created with editing functions other than the paint function cannot be further edited with the same function used to create them.
- Copies created with the paint, quick retouch, stretch, perspective control, D-Lighting, or color options function can be further modified only with the paint, crop, or small picture function.
- Small picture copies and cropped copies cannot be further modified using other editing functions.
- Images created with the draw option can be modified only with the paint or small picture function.

Original Pictures and Edited

- Copies created with editing functions are not deleted if the original pictures are deleted. The original pictures are not deleted if copies created with editing functions are deleted.
- Edited copies are stored with the same recording date and time as the original.
- **Print set** (103) and **Protect** (124) settings configured for original pictures are not reflected in their edited copies.

Creating a Cropped Copy: Crop

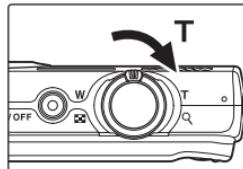
Create a copy containing only the portion visible in the monitor when  is displayed in the monitor with playback zoom (144) enabled. Cropped copies are stored as separate files.

1 Rotate the zoom control to T (Q) in full-frame playback mode to zoom in on the image.

To crop a picture displayed in "tall" (portrait) orientation, zoom in on the picture until the black bars displayed on the both sides of the monitor disappear. The cropped picture will be displayed in landscape orientation.

To crop the picture in its current "tall" (portrait) orientation, first, use the **Rotate image** option (125)

to rotate the picture so that it is displayed in landscape orientation. Next, enlarge the picture for cropping, crop the picture, and then rotate the cropped picture back to "tall" (portrait) orientation.



2 Refine copy composition.

Rotate the zoom control to **T** (Q) or **W** (☒) to adjust the zoom ratio.

Drag the picture so that only the portion to be copied is visible in the monitor.



3 Tap .



4 Tap **Yes**.

A new picture, containing only the portion visible in the monitor, is created.

To cancel creating a cropped copy, tap **No**.

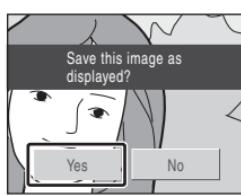


Image Size

As the area to be saved is reduced, the image size (pixels) of the cropped copy is also reduced. When the size of the cropped copy is 320 × 240 or 160 × 120, the small picture icon  or  is displayed on the left of the screen in full-frame playback mode.

More Information

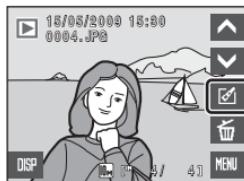
See "Image/Sound File and Folder Names" (144) for more information.

Paint Pictures

Draw pictures on images or add decorations on images. Painted copies are stored as separate files.

- Select the desired pictures from full-frame playback mode (30) and tap .

The retouch menu is displayed.



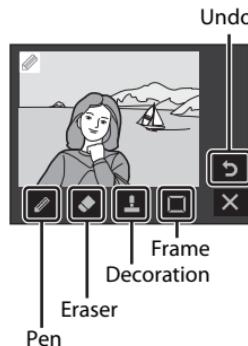
- Tap .



- Use the , , , and tools to paint pictures.

For more information about using each tool, see "Write and Draw Pictures" (58).

Tap to undo the last operation applied using the pen, eraser, or decoration tool (up to the last five operations can be undone).



- Tap .



5 Tap Yes.

A new, painted copy is created.

To cancel creating a painted copy, tap **No**.

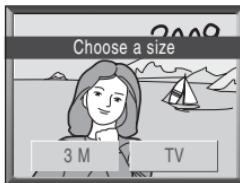


6 Choose a size.

Choose a size of copy from **3 M** (2048 × 1536) or **TV** (640 × 480).

When pictures taken at an image mode setting of **PC** **screen (1024)** or **TV screen (640)** are edited, or cropped copies saved at a size with a pixel count less than three million pixels are further modified using the paint function, copies are automatically saved at a size of **TV** (640 × 480).

Painted copies can be recognized by the icon displayed during playback (11).

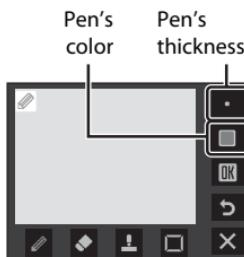


Using the Paint Tools

Write and Draw Pictures

Tap to write or draw pictures.

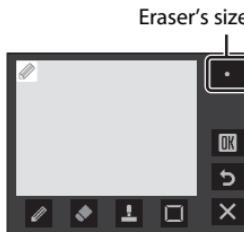
- Tap the thickness control to choose stroke weights.
- Tap the color control to choose a color.



Erase Paint Additions

Tap to erase words you have written, pictures you have drawn, or stamps.

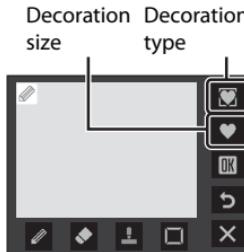
- Tap the eraser's size control to choose the size of the eraser.



Add Decorations

Tap  to add a decoration.

- Tap the decoration type control to choose one of ten decorations.
- Tap the decoration size control to choose the size of the decoration.
- The orientation of decorations cannot be changed.



Frame the Picture

Tap  to frame a picture.

- Tap  or  to display five different frames one at a time.



More Information

See "Image/Sound File and Folder Names" (□ 144) for more information.

Quick Retouch

Quick retouch can be used to easily create retouched copies in which contrast and saturation have been enhanced. Copies created with the quick retouch option are stored as separate files.

- Select the desired pictures from full-frame playback mode (30) and tap .

The retouch menu is displayed.

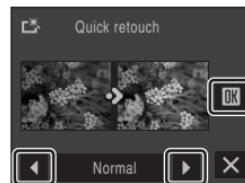


- Tap .

The original version is displayed on the left and the edited version is displayed on the right.



- Tap or to choose the amount of enhancement performed and tap .



- Tap **Yes**.

A new copy with enhanced contrast and saturation is created (the time taken to create a copy might be long).

To cancel creating a copy with the quick retouch option, tap **No**.

Copies created with the quick retouch option can be recognized by the icon displayed during playback (11).



More Information

See "Image/Sound File and Folder Names" (144) for more information

Stretching Pictures: Stretch

Stretch pictures horizontally. Stretched copies are stored as separate files.

- Select the desired pictures from full-frame playback mode (30) and tap .

The retouch menu is displayed.



- Tap .



- Tap  or  to adjust stretch effects.



- Tap .



- Tap .

A new, stretched copy is created.

To cancel creating a stretched copy, tap **No**.

Stretched copies can be recognized by the  icon displayed during playback (11).



More Information

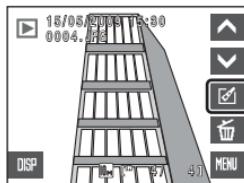
See "Image/Sound File and Folder Names" (144) for more information.

Adding a Sense of Perspective: Perspective control

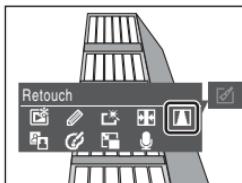
Control the sense of perspective in the picture taken in landscape orientation. Copies created with the perspective control option are stored as separate files.

- 1 Select the desired pictures from full-frame playback mode (30) and tap .

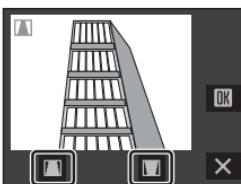
The retouch menu is displayed.



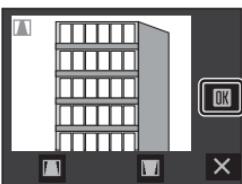
- 2 Tap .



- 3 Tap or to adjust perspective control.



- 4 Tap .

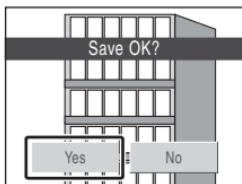


- 5 Tap **Yes**.

A new, edited copy is created.

To cancel creating a copy using the perspective control option, tap **No**.

Copies created using the perspective control option can be recognized by the icon displayed during playback (11).



More Information

See "Image/Sound File and Folder Names" (144) for more information.

Enhancing Brightness and Contrast: D-Lighting

D-Lighting can be used to create copies with enhanced brightness and contrast, brightening dark portions of a picture. D-Lighting copies are stored as separate files.

- Select the desired picture from full-frame playback mode (30) and tap .

The retouch menu is displayed.

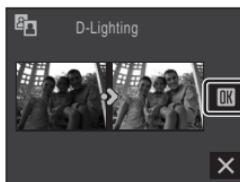


- Tap .

The original version will be shown on the left and the edited version will be shown on the right.



- Tap .



- Tap Yes.

A new, edited copy is created.

To cancel creating an enhanced copy, tap No.

D-Lighting copies can be recognized by the  icon displayed during playback (11).



More Information

See "Image/Sound File and Folder Names" (144) for more information.

Change Color Tones: Color Options

Change color tones of the pictures. Copies of which color tone has been changed are stored as separate files.

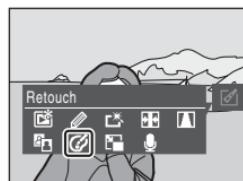
Options	Description
Vivid color	Use to achieve a vivid, "photo print" effect.
Black-and-white	Record pictures in black-and-white.
Sepia	Record pictures in sepia tones.
Cyanotype	Record pictures in cyan-blue monochrome.
Pastel	Change to a pastel shade.

1 Select the desired pictures from full-frame playback mode (30) and tap .

The retouch menu is displayed.



2 Tap .



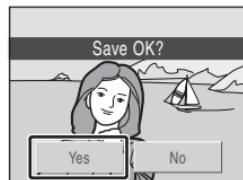
3 Tap the desired color option control and tap .



4 Tap **Yes**.

A new, copy of which color tone has been changed is created.
To cancel creating a copy, tap **No**.

Copies created using color options can be recognized by the icon displayed during playback (11).



More Information

See "Image/Sound File and Folder Names" (144) for more information.

Resizing Pictures: Small Picture

Create a small copy of the current picture. Small copies are stored as JPEG files with a compression ratio of 1:16. The following sizes are available.

Option	Description
<input checked="" type="checkbox"/> 640×480	Suited to television playback.
<input checked="" type="checkbox"/> 320×240	Suited to display on web pages.
<input checked="" type="checkbox"/> 160×120	Suited to e-mail attachments.

1 Select the desired pictures from full-frame playback mode (130) and tap .

The retouch menu is displayed.



2 Tap .



3 Tap the control of the desired copy size and tap .



4 Tap **Yes**.

A new, smaller copy is created.

To cancel creating a copy, tap **No**.

The copy is displayed with a gray frame.



More Information

See "Image/Sound File and Folder Names" (144) for more information.

Voice Memos: Recording and Playback

Use the camera's built-in microphone to record voice memos for pictures.

Recording Voice Memos

- 1 Select the desired picture from full-frame playback mode (30) and tap .

The retouch menu is displayed.



- 2 Tap .

The screen for recording voice memos is displayed.



- 3 Tap  to record a voice memo.

Recording ends after about 20 seconds.

Do not touch the built-in microphone during recording.

During recording,  blinks in the monitor.

When  is tapped during recording, recording ends.

When recording ends, the voice memo playback screen is displayed. Follow the instructions in step 3 of "Playing Voice Memos" (67) to play the voice memo.

Tap  to return to full-frame playback mode.



More Information

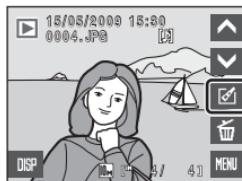
See "Image/Sound File and Folder Names" (144) for more information.

Playing Voice Memos

Pictures for which voice memos have been recorded are indicated by in full-frame playback mode.

- Select the desired picture from full-frame playback mode (30) and tap .

The retouch menu is displayed.



- Tap .

The screen for playing voice memos is displayed.



- Tap to listen to the voice memo.

Playback ends when is tapped.

Rotate the zoom control **W** or **T** to adjust the playback volume. Tapping the volume control also adjusts the volume.

During playback, blinks.

Tap to return to full-frame playback mode.



Deleting Voice Memos

Tap in the voice memo playback screen. Tap **Yes** to delete only the voice memo.



Voice Memos

- When a picture with a voice memo attached is deleted, both the picture and its voice memo are deleted.
- If a voice memo already exists for the current picture, it must be deleted before a new voice memo can be recorded.
- The COOLPIX S230 is not able to attach a voice memo to pictures recorded by other cameras.

Viewing Pictures by Date (List by Date Mode)

In **DATE** list by date mode, pictures taken on a same date can be played back. In the full-frame playback mode, just as with normal playback mode, picture display can be enlarged, pictures can be displayed in thumbnails, edited, voice memos can be recorded or played back, movies can be played back, and still pictures can be added to the favorites folder. When **MENU** is tapped, the list by date menu (70) is displayed, and all pictures taken on a specified date can be selected for deletion and printing.

Selecting a Date in List by Date Mode

- 1 Press the **■** button in playback mode to display the playback-mode selection menu and tap **DATE**.

Dates for which pictures exist is listed.



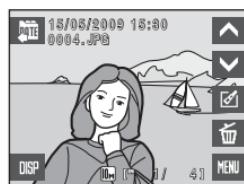
- 2 Tap the desired date.

Camera lists up to 29 dates. If pictures exist for more than 29 dates, all pictures recorded earlier than most recent 29 dates will be listed together as **Others**.



The first picture taken on the selected date will be displayed full-frame (30).

Tap **DISP** in full-frame or thumbnail display to return to the list by date screen.



Notes on List by Date Mode

- Up to 9,000 pictures can be displayed in list by date mode. If more pictures exist, "*" is displayed next to the number.
- Pictures taken before the date and time have been set are recognized as having been taken on 01/01/2009.

Using List by Date Mode

The following operations are available in the list by date screen.

To	Use	Description	
Scroll the screen		Tap or to scroll the screen.	-
Delete pictures taken on the specified date		Tap to display the date selection screen. Select the desired date and tap to delete all pictures taken on that date.	-
View list by date menu		Tap to display the list by date menu.	70
Change playback mode		Press the button to display the playback-mode selection menu.	13
Switch to shooting mode	 	Press the button or the shutter-release button to return to the last shooting mode selected.	30

List by Date Menu

Tap **MENU** in list by date mode to display the list by date menu for only the pictures taken on the specified date.

Tap **MENU** in the list by date screen (68) to display the following menus. Tap the menu option to display the date selection screen. Tap the desired date and tap **OK**. The print set option can be applied to all pictures taken on the same date, or all pictures taken on the same date can be deleted.

Print set	→ 105
Delete	→ 124

To apply options to individual pictures or to select individual pictures, for deletion, for example, tap **MENU** in full-frame display to display the following menus:

Print set	→ 103
Slide show	→ 123
Delete	→ 124
Protect	→ 124
Rotate image	→ 125

Image Searching in Auto Sort Mode

Pictures and movies will automatically be sorted in any of the following folders during shooting. If **Auto sort** mode is selected, pictures and movies can be viewed by selecting the folder to which they were sorted with shooting.

Smile	Portraits	Food
Landscape	Dusk to dawn	Close-ups
Movie	<input checked="" type="checkbox"/> Retouched copies	Other scenes

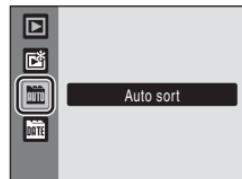
In full-frame playback mode, just as with the normal playback mode, picture display can be enlarged, pictures can be displayed in thumbnails, edited, and voice memos can be recorded and played back, movies can be played back, and still pictures can be added to the favorites folder. When **[MENU]** is tapped, the auto sort menu (74) is displayed, and all pictures sorted to a specified category can be selected for deletion and printing.

Displaying Pictures in Auto Sort Mode

- 1 Press the **[]** button in playback mode to display the playback-mode selection menu and tap .

A list of categories appears. For details of categories, see "Categories and the Contents" (72).

The pictures in the folder are displayed.



- 2 Tap the desired folder.



The picture in the selected folder will be displayed in full-frame playback mode (30).

The icon of the category currently played back will be displayed at the bottom of the screen.

Tap in full-frame or thumbnail display to return to the list of categories.



Categories and the Contents

Folder name	Description
Smile	Pictures taken in smile mode (50) are displayed.
Portraits	Pictures taken with Face Priority (118) in (auto) mode (24) or those taken in Portrait* , Night Portrait* , Party/indoor or Backlight* scene mode (36) are displayed.
Landscape	Pictures taken in Landscape* scene mode (36) are displayed.
Dusk to dawn	Pictures taken in Night landscape* , Sunset, Dusk/dawn or Fireworks show scene mode (36) are displayed.
Close-ups	Pictures taken in Close-up* scene mode (36) or with macro (35) in (auto) mode are displayed.
Food	Pictures taken in Food scene mode (45) are displayed.
Movie	Movies recorded in movie mode (82) are displayed.
Retouched copies	Copies created using the editing function (55) are displayed.
Other scenes	All pictures that are not included in the other folders are displayed.

* The pictures taken in **Scene auto selector** scene mode (43) are included.

Notes on Auto Sort Mode

- Up to 999 pictures and movie files can be added to each folder in auto sort mode. If the desired folder already contains 999 pictures, new pictures or movies cannot be added or displayed in auto sort mode. Display pictures and movies that could not be added to a folder in normal playback mode (30) or list by date mode (68).
- Pictures or movies copied from the internal memory or the memory card (125) cannot be displayed in auto sort mode.
- Pictures or movies recorded by a camera other than the COOLPIX S230 cannot be displayed in auto sort mode.

Using Auto Sort Mode

The following operations are available in the category list screen.

To	Use	Description	
Delete pictures sorted to the specified category		Tap  to display the category selection screen. Select the desired category and tap  to delete all pictures sorted to that category.	-
View auto sort menu		Tap  to display the auto sort menu.	74
Change playback mode		Press the  button to display the playback-mode selection menu.	13
Switch to shooting mode		Press the  button or the shutter button to return to the last shooting mode selected.	30
	 		

Auto Sort Menu

Tap **[MENU]** in auto sort mode to display the auto sort menu for only the pictures sorted to the specified category.

Tap **[MENU]** in the category list screen (71) to display the following menus. Tap the menu option to display the category selection screen. Tap the desired category and tap **[OK]**. The print set option can be applied to all pictures sorted to the same category, or all pictures sorted to the same category can be deleted.

Print set	→ 105
Delete	→ 124

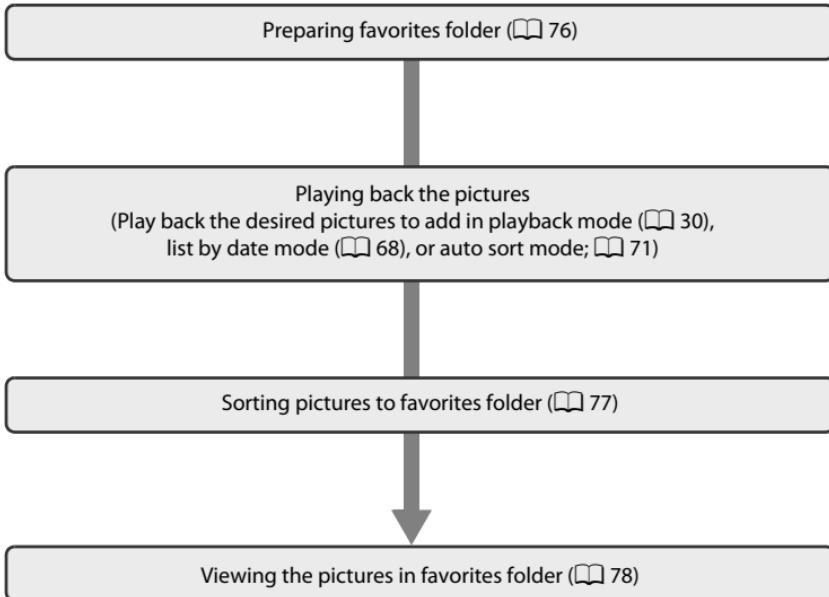
To apply options to individual pictures or to select individual pictures, for deletion, for example, tap **[MENU]** in full-frame display to display the following menus:

Print set	→ 103
Slide show	→ 123
Delete	→ 124
Protect	→ 124
Rotate image	→ 125

Sorting Favorite Pictures (Favorite Pictures Mode)

Pictures can be added to the favorites folder sorted by each event such as travel or wedding. Once pictures are added to the favorites folder, only pictures in the selected folder can be played back. One picture can be added to multiple folders.

Sorting/Playback Procedures



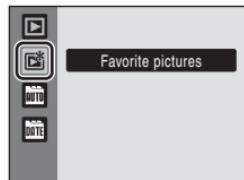
More on Playback

Preparing Favorites Folder

Changing the display icons for favorites folders enables you to see which pictures have been added to a favorites folder. The icons can be changed again after pictures have been added to the folders.

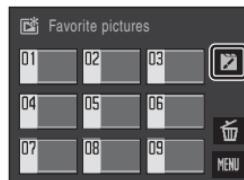
- 1 Press the  button in playback mode to display the playback-mode selection menu and tap .

Favorite folders are displayed.



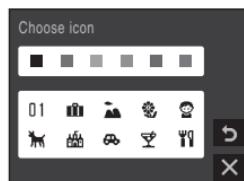
- 2 Tap .

Icon selection screen is displayed.



- 3 Tap the desired folder.

The screen for selecting the folder's icon and icon color is displayed.



- 4 Tap the desired icon and color and tap .

Icons are changed and the monitor display returns to the favorite pictures screen shown in step 2.



Icons for Favorites Folder

Choose icons for favorites folders separately for the internal memory and for every memory card used. When favorite pictures stored to the internal memory, or a memory card, are played back without an icon having been selected, icons are displayed as numbers (default setting). Remove the memory card from the camera to change icons for the internal memory.

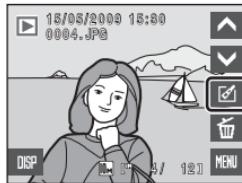
Sorting Pictures to a Favorites Folder

Pictures can be added to favorites folders and sorted. Adding the pictures enables easier and faster searching.

- 1 Playback the pictures in playback mode (□ 30), list by date mode (□ 68), or auto sort mode (□ 71).

- 2 Select your favorite picture and tap .

The retouch menu is displayed.



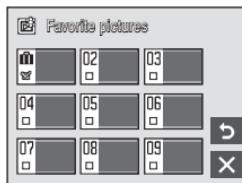
- 3 Tap .

The favorites folders selection screen is displayed.



- 4 Tap the desired favorites folder.

The pictures are added to the selected favorites folder.



Notes on Adding Favorite Pictures

- A favorites folder can contain up to 200 pictures.
- If the selected picture has been already added to the favorites folder, the checkbox on the selected folder will have the On mark (✓).
- One picture can be added to multiple favorite folders.
- When pictures are added to a favorites folder, they are not physically copied to a favorites folder or moved from the folder to which they were originally recorded (□ 81).
- Movies cannot be added to favorites folders.

More information

See "Removing Pictures from Favorites" (□ 79) for more information.

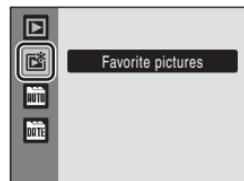
Viewing the Pictures in Favorites Folder

Pictures can be displayed by selecting the favorites folder to which they were added in favorite pictures mode. In full-frame playback mode, just as with normal playback mode, picture display can be enlarged or pictures can be displayed in thumbnails, edited, or voice memos can be recorded or played back. When is tapped, the favorite pictures menu (80) is displayed, and all pictures sorted to a specified folder can be selected for deletion and printing.

- 1 Press the button in playback mode to display the playback-mode selection menu and tap .

A list of favorites folders is displayed.

If the pictures have been added to the favorites folder, pictures in the selected favorites folder are displayed.



- 2 Tap the desired favorite folder.

The pictures in the selected favorites folder will be displayed in full-frame playback mode (30). The icon of the favorites folder currently played back will be displayed at the bottom of the screen.

Tap in full-frame or thumbnail display to return to the favorites folders list screen.



Removing Pictures from Favorites

Tap in the full-frame display (78, step 2) and tap in the retouch menu to display the confirmation dialog.

To remove the picture from favorites, tap **Yes**. To cancel removing, tap **No**.



Difference between Removing and Deleting Favorites

In favorite pictures mode, pictures that have been added to the favorites folder are displayed (81). Deleting a picture during playback will delete the original picture that has been added to the favorites folder. To remove a picture from favorites without deleting it, just remove the desired picture from favorites folder.

Using Favorite Pictures Mode

The following operations are available in the favorites folders list screen.

To	Use	Description	
Change the icon for favorites folder		Change the icon for favorites folder.	76
Delete pictures sorted to the specified folder		Tap to display the folder selection screen. Select the desired folder and tap to delete all pictures sorted to that folder.	-
View favorite pictures menu		Tap to display the favorite pictures menu.	80
Change playback mode		Press the button to display the playback-mode selection menu.	13
Switch to shooting mode	 	Press the button or the shutter-release button to return to the last shooting mode selected.	30

Favorite Pictures Menu

Tap **MENU** in favorite pictures mode to display the favorite pictures menu for only the pictures sorted to the specified folder.

Tap **MENU** in the favorites folder list screen (□ 78) to display the following menus. Tap the menu option to display the favorites folder selection screen. Tap the desired folder and tap **OK**. The print set option can be applied to all pictures sorted to the same folder, or all pictures sorted to the same folder can be deleted.

Print set	→ 105
Delete	→ 124

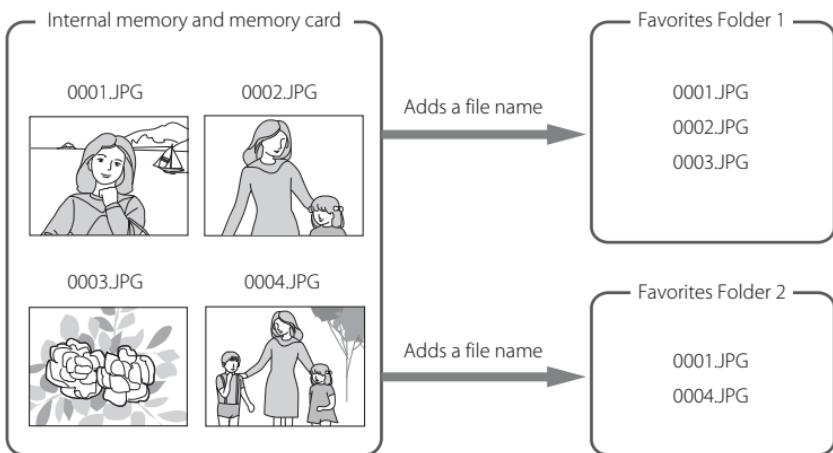
To apply options to individual pictures or to select individual pictures, for deletion, for example, tap **MENU** in full-frame display to display the following menus:

Print set	→ 103
Slide show	→ 123
Delete	→ 124
Protect	→ 124
Rotate image	→ 125

Adding/Viewing Favorite Pictures

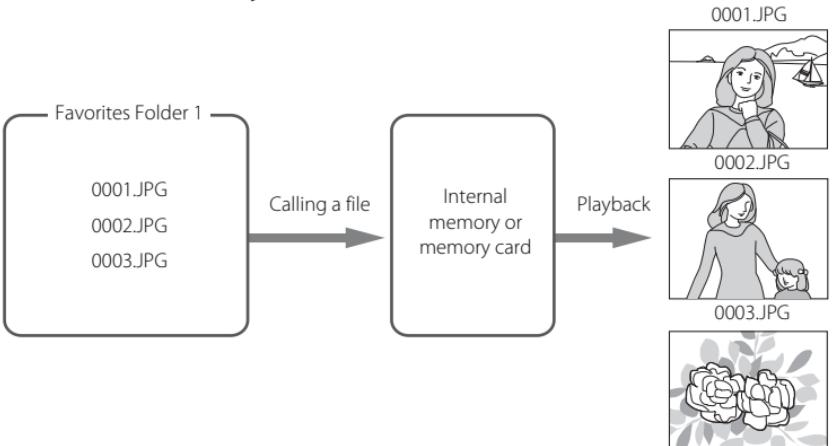
When pictures are added to a favorites folder, they are not physically copied to a favorites folder or moved from the folder to which they were originally recorded (144). Only the file names of pictures are added to favorites folders. In favorite pictures mode, pictures with file names that have been added to the favorites folder are played back. Deleting a picture (30, 79, 124) during playback will delete the original picture that has been added to favorites, so be careful when deleting pictures.

Adding to Favorites



More on Playback

Favorites Picture Playback



Recording Movies

To shoot movies with sound recorded via the built-in microphone, select shooting mode and follow the steps below.

- Enter movie mode by pressing the  button in shooting mode and tapping .

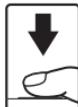
The maximum length of the movie that can be recorded is displayed in the monitor.



- Press the shutter-release button all the way down to start recording.

Camera focuses on subject in center of frame.

A progress bar at the bottom of the monitor shows the amount of recording time remaining.



To end recording, press the shutter-release button all the way down a second time.

Recording stops automatically when the internal memory or memory card becomes full, or recording time reaches 25 minutes.

Recording Movies

- Flash mode (32) and self-timer (34) cannot be applied or changed. Macro mode (35) is available.
- Macro mode setting cannot be applied or changed while movies are being recorded. Apply or change setting as necessary before movie recording begins.
- Optical zoom cannot be adjusted once movie recording begins. Digital zoom cannot be applied before movie recording begins. However, digital zoom (up to 2x) can be applied while movies are being recorded.
- The angle of view (field of view) when recording movies is smaller than when taking still pictures.

Note on Recording Movies

When the movie has been fully recorded to the internal memory or memory card, the monitor display will revert to the normal shooting mode display. ***Do not open the battery-chamber/memory card slot cover*** while movies are being recorded. Removing the memory card while movies are being recorded could result in loss of data or in damage to the camera or card.

Changing Movie Settings

Movie options (83) and **Electronic VR** (84) settings can be changed.

The Movie Menu

Movie options and **Electronic VR** (84) settings can be changed from the movie menu. Tap **MENU** in movie mode to display the movie menu and tap the menu options to modify and apply settings.

Movie Options

Set to **Movie** → **MENU** (Movie menu) → Movie options

The movie menu offers the options shown below.

Option	Image size and frame rate
TV movie 640★ (default setting)	Image size: 640 × 480 pixels Frame rate: 30 frames per second
TV movie 640	Image size: 640 × 480 pixels Frame rate: 15 frames per second
Small size 320★	Image size: 320 × 240 pixels Frame rate: 30 frames per second
Small size 320	Image size: 320 × 240 pixels Frame rate: 15 frames per second

Movie Options and Maximum Movie Length

Option	Internal memory (approx.44 MB)	Memory card (512 MB)
TV movie 640★ (default setting)	40 s	Approx. 7 min 10 s
TV movie 640	1 min 19 s	Approx. 14 min 10 s
Small size 320★	1 min 19 s	Approx. 14 min 10 s
Small size 320	2 min 36 s	Approx. 25 min

* All figures are approximate. The maximum recording time may vary with make of memory card. This camera can record movies up to 25 minutes in length. A maximum movie length of 25 minutes is displayed, regardless of memory card capacity.

More Information

See "Image/Sound File and Folder Names" (144) for more information.

Electronic VR

Set to  (Movie) →  (Movie menu) → Electronic VR

Choose whether to use electronic VR (vibration reduction) when shooting movies.

Option	Description
 On	Reduce the effects of camera shake in all movie modes.
 Off (default setting)	Disable electronic VR.

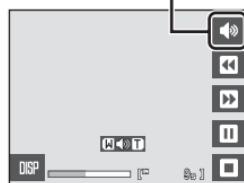
At settings other than **Off**, the icon for the current setting is displayed in the monitor (9).

Movie Playback

In full-frame playback mode (30), movies are recognized by the movie playback guide (11). To play a movie, display it in full-frame playback mode and tap the movie currently displayed.



Volume control



During playback

Movies

To	Use	Description
Rewind		Touch and hold to rewind movie.
Advance		Touch and hold to advance movie.
Pause		Pause playback. The following operations can be performed while playback is paused using the controls displayed at right in the monitor.
		Rewind movie back one frame. Touch and hold for continuous frame-by-frame rewind.
		Advance movie forward one frame. Touch and hold for continuous frame-by-frame advance.
		Resume playback.
End		End playback and return to full-frame playback.

Deleting Movie Files

Tap when displayed in full-frame playback mode (30). A confirmation dialog is displayed. Tap **Yes** to delete the movie, or tap **No** to return to the normal playback display without deleting the movie.



Making Voice Recordings

Audio voice recordings can be recorded over the built-in microphone and played back over the built-in speaker.

- Press the  button in shooting mode to display the shooting-mode selection menu and tap the scene mode control.

The icon for the last scene mode selected is displayed. The default setting is  (Scene auto selector).



- Tap .

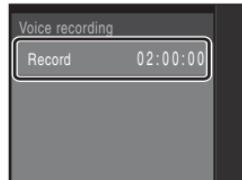
The length of recording that can be made is displayed.



- Tap **Record** to start recording.

The indicator lamp lights during recording. After about 30 seconds, the camera's auto off function is enabled and the monitor turns off. Press the  button to reactivate the monitor.

See "Operations During Recording" (87) for more information.



- Tap  to end recording.

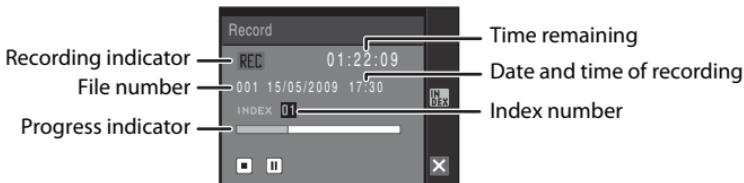
Recording will end automatically if the internal memory or memory card becomes full, or after 120 minutes of recording on the memory card.



More Information

See "Image/Sound File and Folder Names" (144) for more information.

Operations During Recording



To	Use	Description
Pause/resume recording	<input type="button"/> / <input checked="" type="button"/>	Tap <input type="button"/> to pause recording; indicator lamp will blink. Tap <input checked="" type="button"/> to resume recording.
Create index*	<input type="button"/> IN DEX	During recording, tap <input type="button"/> IN DEX to create index. Camera can skip to any index during playback. Start of recording is index number 01; other numbers are assigned in ascending order, to a maximum of 98.
End recording	<input type="button"/>	Tap <input type="button"/> to end recording.

* The copied files can be played back using QuickTime or any other WAV-compatible audio players. Note that index points created with the camera cannot be used when voice recordings are played back on computers.

Playing Voice Recordings

1 Press the  button in shooting mode to display the shooting-mode selection menu and tap the scene mode control.



2 Tap .

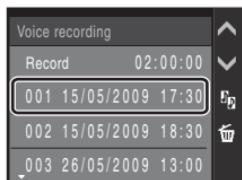
The voice recording screen is displayed.



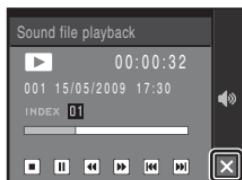
3 Tap the desired file.

The selected file is played back.

Tap  or  to scroll up or down.



Tap  to return to the screen shown above.



Operations During Playback



Rotate the zoom control **T** or **W** to adjust the playback volume. Tapping the volume control also adjusts the volume.

Playback controls appear at the bottom of the monitor. Tap a playback control to perform the corresponding operation. The following operations are available.

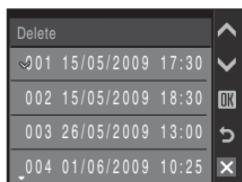
To	Use	Description
Rewind	◀	Touch and hold ▲ to rewind voice recording.
Advance	▶	Touch and hold ▼ to advance voice recording.
Skip to previous index	◀▶	Skip to previous index.
Skip to next index	▶▶	Skip to next index.
Pause	■	Pause playback. The following operations can be performed while playback is paused: Resume playback.
End	□	End playback and return to the voice recording screen.

Deleting Sound Files

Tap **■** in the voice recording list (88, step 3).

Tap the desired sound file and tap **OK**.

When the confirmation dialog is displayed, tap **Yes** to delete that file. To exit without deleting the sound file, tap **No**.



Copying Voice Recordings

Copy voice recordings between the internal memory and a memory card. This option is available only when a memory card is inserted.

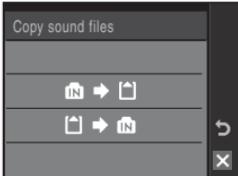
- 1 Tap in the voice recording screen (86, step 3, 88, step 3).



- 2 Tap the desired option.

: Copy recordings from internal memory to memory card.

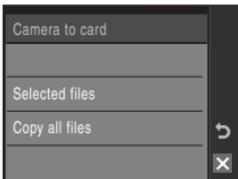
: Copy recordings from memory card to internal memory.



- 3 Tap the desired copy option.

Selected files: Proceed to step 4.

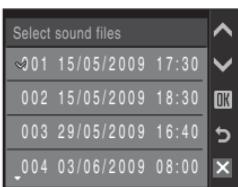
Copy all files: Proceed to step 5.



- 4 Tap the desired file.

Tap the desired sound file to select (). Tap the file again to cancel the selection.

- Multiple files can be selected.
- Tap to finalize file selection.



- 5 When a confirmation dialog is displayed, tap **Yes**.

Copying starts.

Tap to return to the screen shown in step 2.

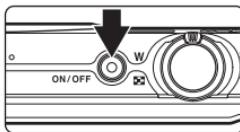
Voice Recordings

The COOLPIX S230 may be unable to play or copy sound files created with another model or make of camera.

Connecting to a TV

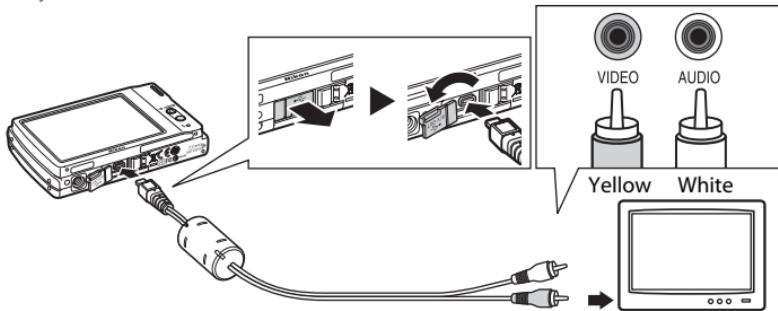
Connect the camera to a television using the supplied audio/video cable (AV cable) to play back pictures full-frame or in a slide show, or to play back movies, on the television.

- 1 Turn off the camera.



- 2 Connect the camera to the TV using the supplied AV cable.

Connect the yellow plug to the video-in jack on the TV, and the white plug to the audio-in jack.



- 3 Tune the television to the video channel.

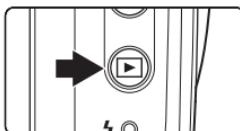
See the documentation provided with your television for details.

- 4 Hold down the **[]** button to turn on the camera.

The camera enters playback mode, and the pictures taken will be displayed on the television.

While pictures are displayed on the TV, the camera monitor will remain off.

See "Operations with TV Connection" (☞ 92) for more information.



Connecting an AV Cable

When connecting the AV cable, be sure that the camera connector is oriented correctly. Do not use force when connecting the AV cable to the camera. When disconnecting the AV cable, do not pull the connector at an angle.

Video Mode

Be sure that the camera's video mode setting conforms to the standard used by your television. The video mode setting is an option set in the setup menu (127)>**Video mode** (138).

Operations with TV Connection

While pictures are displayed full frame on the TV, the previous or subsequent picture can be viewed by dragging your finger across the camera monitor.

If the first frame of a movie is displayed, the movie can be played back by tapping the camera monitor.

- Tap the camera monitor to turn TV display off and display the picture in the camera monitor. When pictures are displayed in the camera monitor, tap the controls displayed to operate the camera.
- When the camera is connected to a TV, pictures cannot be displayed as thumbnails, picture display cannot be enlarged (playback zoom), and pictures cannot be cropped.
- Pictures will be automatically displayed on the TV in the following situations.
 - No operations are performed for a few seconds.
 - A slide show is played back.
 - A movie is played back.

Connecting to a Computer

Use the supplied USB cable to connect the camera to a computer, and copy (transfer) pictures to a computer with the supplied Nikon Transfer software.

Before Connecting the Camera

Install the Software

Before connecting the camera to a computer, software, including Nikon Transfer and Panorama Maker for creating panorama images, must be installed from the supplied Software Suite CD. For more information on installing the software, refer to the *Quick Start Guide*.

Compatible Operating Systems

Windows

Preinstalled versions of Windows Vista Service Pack 1 (32-bit Home Basic/Home Premium/Business/Enterprise/Ultimate editions),
Windows XP Service Pack 3 (Home Edition/Professional)

Macintosh

Mac OS X (version 10.3.9, 10.4.11, 10.5.5)

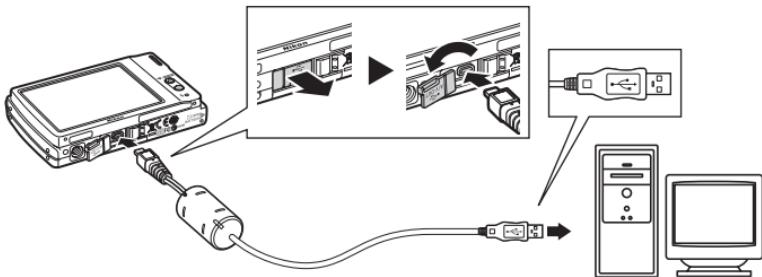
Refer to the Nikon website for the latest information on operating system compatibility.

Notes on Power Source

- When connecting the camera to a computer or printer, use a fully charged battery to prevent the camera from turning off unexpectedly.
- If the AC Adapter EH-62D (available separately) is used, COOLPIX S230 can be powered from a home electrical outlet. Do not use any other AC adapters as it will cause the camera to heat up or malfunction.

Transferring Pictures from a Camera to a Computer

- 1 Start the computer to which Nikon Transfer was installed.
- 2 Turn off the camera.
- 3 Connect the camera to the computer using the supplied USB cable.



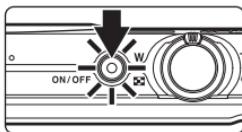
- 4 Turn on the camera.

The power-on lamp will light up.

Windows Vista

When the AutoPlay dialog is displayed, click **Copy pictures to a folder on my computer using Nikon Transfer**. Nikon Transfer will start.

To bypass this dialog in the future, check **Always do this for this device**.



Windows XP

When the action selection dialog is displayed, select **Nikon Transfer Copy pictures to a folder on my computer** and click **OK**. Nikon Transfer will start.

To bypass this dialog in the future, check **Always use this program for this action**.

Mac OS X

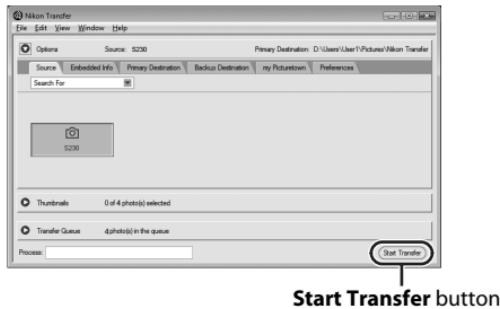
Nikon Transfer will start automatically if **Yes** was selected in the Auto-Launch setting dialog when Nikon Transfer was first installed.

✓ Connecting the USB Cable

- When connecting the USB cable, be sure that the connectors are oriented correctly. Do not use force when connecting the USB cable. When disconnecting the USB cable, do not pull the connector at an angle.
- Connection may not be recognized when the camera is connected to a computer via a USB hub.

5 Transfer pictures when Nikon Transfer has finished loading.

Click **Start Transfer** in Nikon Transfer. At the default setting, all pictures are transferred to the computer.



Start Transfer button

At the Nikon Transfer default setting, the folder to which the pictures were transferred opens automatically when transfer ends.

If ViewNX has been installed, ViewNX will start automatically and transferred pictures can be viewed.

For more information on using Nikon Transfer or ViewNX, refer to help information contained in Nikon Transfer or ViewNX.

6 Disconnect the camera when transfer is complete.

Turn the camera off and disconnect the USB cable.

Using a Card Reader

The pictures stored on the memory card inserted into a card reader or similar device can also be transferred to the computer using Nikon Transfer.

- If the memory card has a capacity greater than 2 GB, or is SDHC-compliant, the intended device must support these features of the memory card.
- At the Nikon Transfer default settings, Nikon Transfer will start automatically when a memory card is inserted into the card reader or similar device. See step 5 of “Transferring Pictures from a Camera to a Computer” (□ 95) and transfer pictures.
- To transfer pictures stored in the camera’s internal memory to the computer, the pictures must first be copied to a memory card using the camera (□ 90, 125).

Using Standard OS Operations to Open Camera Files

- Navigate to the folder on the computer’s hard disk to which pictures were saved and open a picture in the viewer supplied with your operating system.
- Sound files copied to the computer can be played back using QuickTime or any other WAV-compatible audio player.

Panorama Creation with Panorama Maker

- Use a series of pictures taken using the **Panorama assist** option in scene mode (□ 42) to create a single panorama photo with Panorama Maker.
- Panorama Maker can be installed to a computer using the supplied Software Suite CD.
- After installation is complete, follow the procedure described below to start Panorama Maker.

Windows

Choose **Start >All Programs>ArcSoft Panorama Maker 4>Panorama Maker 4**.

Macintosh

Open Applications by selecting **Applications** from the **Go** menu, and double-click the **Panorama Maker 4** icon.

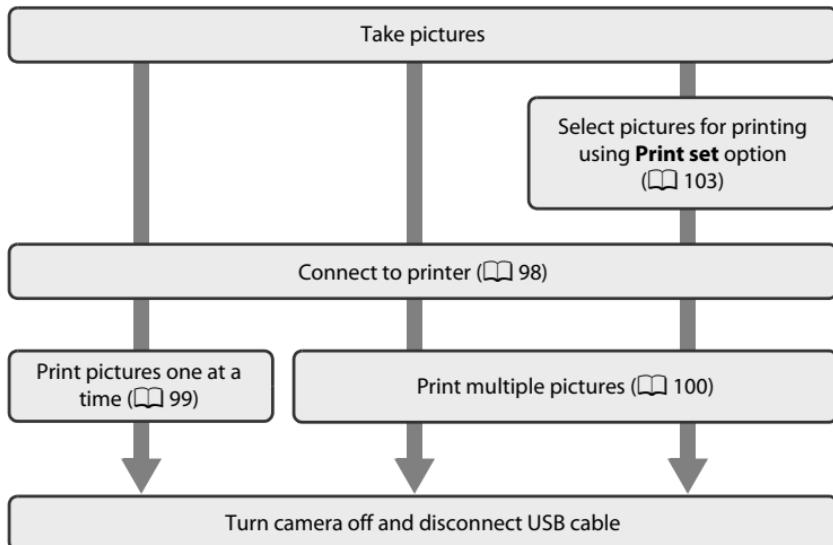
- For more information on using Panorama Maker, refer to the on-screen instructions and help information contained in Panorama Maker.

Image File Names and Folder Names

See “Image/Sound File and Folder Names” (□ 144) for more information.

Connecting to a Printer

Users of PictBridge-compatible (☞ 161) printers can connect the camera directly to the printer and print pictures without using a computer.



✓ Note on Power Source

When connecting the camera to a computer or printer, use a fully charged battery to prevent the camera from turning off unexpectedly.

If the AC Adapter EH-62D (available separately) is used, COOLPIX S230 can be powered from a home electrical outlet. Do not use any other AC adapters as it will cause the camera to heat up or malfunction.

☞ Printing Pictures

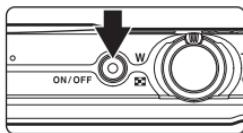
In addition to printing pictures transferred to a computer from your personal printer and printing over a direct camera-to-printer connection, the following options are also available for printing pictures:

- Insert a memory card into a DPOF-compatible printer's card slot
- Take a memory card to a digital photo lab

For printing using these methods, specify the pictures and the number of prints each using your camera's **Print set** menu (☞ 103).

Connecting the Camera and Printer

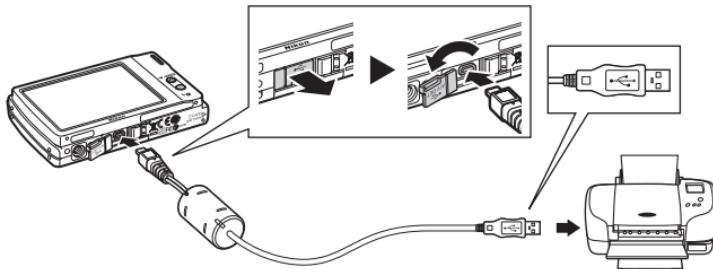
- 1 Turn off the camera.



- 2 Turn on the printer.

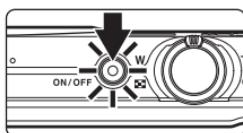
Check printer settings.

- 3 Connect the camera to the printer using the supplied USB cable.



- 4 Turn on the camera.

When connected correctly, the PictBridge startup screen ① will be displayed in the camera monitor. Then the print selection screen will be displayed ②.



①



②



✓ Connecting the USB Cable

When connecting the USB cable, be sure that the connectors are oriented correctly. Do not use force when connecting the USB cable. When disconnecting the USB cable, do not pull the connector at an angle.

Printing Pictures One at a Time

After connecting the camera to the printer correctly (98), print pictures by following the procedures below.

- 1 Tap **▲** or **▼** to choose the desired picture, and tap **OK**.

Tap **Q** or rotate the zoom control to **W (Q)** to switch to 12-thumbnail display. Tap **Q** or rotate the zoom control to **T (Q)** to switch back to full-frame playback.



- 2 Tap **Copies**.



- 3 Tap the desired number of copies.



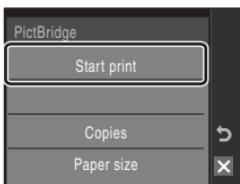
- 4 Tap **Paper size**.



- 5 Tap the desired **Paper size**.

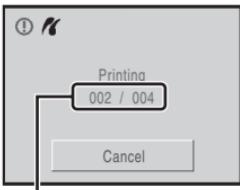
To specify paper size using printer settings, choose **Default** in the paper size menu.



6 Tap Start print.**7 Printing starts.**

Monitor display returns to the print selection screen (step 1) when printing is complete.

To cancel before all copies have been printed, tap **Cancel**.



Current print/
total number of prints

Printing Multiple Pictures

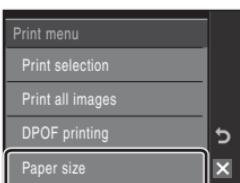
After connecting the camera to the printer correctly (□ 98), print pictures by following the procedures below.

1 When the print selection screen is displayed, tap **MENU.**

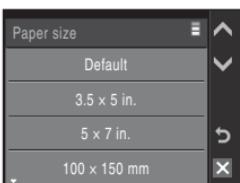
The print menu is displayed.

**2 Tap Paper size.**

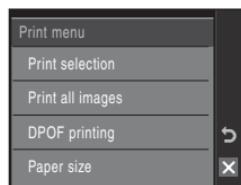
To exit the print menu, tap **X**.

**3 Tap the desired Paper size.**

To specify paper size using printer settings, choose **Default** in the paper size menu.



4 Tap Print selection, Print all images or DPOF printing.



Print selection

Choose the pictures (up to 99) and the number of copies (up to nine) of each.

Tap the desired picture to print and tap **-** or **+** to set the number of copies for each.

Pictures selected for printing can be recognized by the check mark (☑) icon and the numeral indicating the number of copies to be printed. A check mark is not displayed with pictures for which no copies have been specified and these pictures will not be printed.

Tap **Q** or rotate the zoom control to **T (Q)** to switch to full-frame playback.

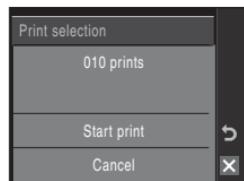
Tap **W** or rotate the zoom control to **W (W)** to switch back to 12-thumbnail display.

Tap **OK** when setting is complete.

The menu shown at right will be displayed.

To print, tap **Start print**.

Tap **↶** to return to the print menu.



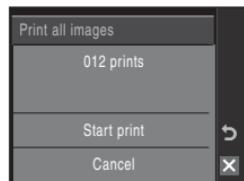
Print all images

All pictures stored in the internal memory, or on the memory card, are printed one at a time.

The menu shown at right will be displayed.

To print, Tap **Start print**.

Tap **↶** to return to the print menu.



DPOF printing

Print pictures for which a print order was created in **Print set** (103).

- The menu shown at right will be displayed.
- To print, tap **Start print**.
- Tap to return to the print menu.

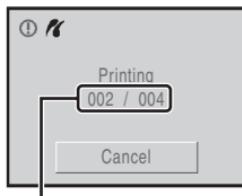


- To view the current print order, tap **View images**. To print pictures, tap .

**5 Printing starts.**

Monitor display returns to the print menu (step 2) when printing is complete.

To cancel before all copies have been printed, tap **Cancel**.



Current print/
total number of prints

 Paper Size

The camera supports the following paper sizes: **Default** (the default paper size for the current printer), **3.5x5 in., 5x7 in., 100x150 mm, 4x6 in., 8x10 in., Letter, A3, and A4**. Only sizes supported by the current printer will be displayed. To specify paper size using printer settings, choose **Default** in the paper size menu.

Creating a DPOF Print Order: Print Set

The **Print set** option in the playback menu is used to create digital “print orders” for printing on DPOF-compatible devices (161).

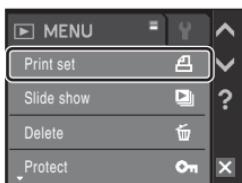
When the camera is connected to a PictBridge-compatible printer, pictures can be printed from the printer according to the DPOF print order you have created for pictures on the memory card. If the memory card is removed from the camera, you can create the DPOF print order for pictures in the internal memory and print pictures according to the DPOF print order.

1 Tap **MENU** in playback mode.

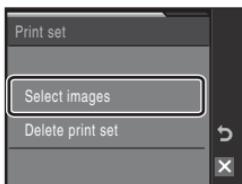
The playback menu is displayed.



2 Tap **Print set**.



3 Tap **Select images**.



4 Choose the pictures (up to 99) and the number of copies (up to nine) for each.

Tap the desired picture to print and tap **-** or **+** to set the number of copies for each.

Pictures selected for printing can be recognized by the check mark (✓) icon and the numeral indicating the number of copies to be printed. A check mark is not displayed with pictures for which no copies have been specified and these pictures will not be printed.

Tap **Q** or rotate the zoom control to **T** (**Q**) to switch to full-frame playback.

Tap **W** or rotate the zoom control to **W** (**W**) to switch back to 12-thumbnail display.

Tap **OK** when setting is complete.

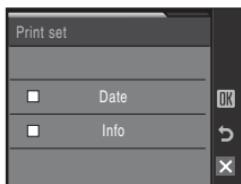


5 Choose whether or not to print shooting date and photo information.

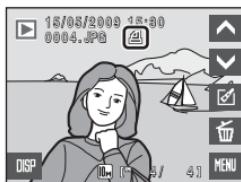
Tap **Date** to print the shooting date on all pictures in the print order.

Tap **Info** to print photo information (shutter speed and aperture) on all pictures in the print order.

Tap **OK** to complete the print order and exit.



Pictures selected for printing are recognized by the  icon displayed with playback.



Notes on Printing Shooting Date and Photo Information

When the **Date** and **Info** options are enabled in the **Print set** menu, shooting date and photo information are printed on pictures when a DPOF-compatible printer (161) which supports printing of shooting date and photo information is used.

- Photo information cannot be printed when the camera is connected directly to a printer, via the supplied USB cable, for DPOF printing (102).
- **Date** and **Info** are reset each time the print set menu is displayed.

Deleting All Print Orders

Tap **Delete print set** in step 3. Print orders for all pictures will be deleted.

Note on the Print Set Date Option

The date and time printed on pictures with DPOF printing when **Date** in the **Print set** menu is enabled, are those recorded with the picture as it was taken. Date and time printed using this option are not affected when the camera's date and time setting are changed from the setup menu after pictures are recorded.



Date Imprint

When date and time of recording are imprinted on pictures using the **Date imprint** option (133) in the setup menu, pictures with the date and time imprinted on them can be printed from printers that do not support printing of the date and time on pictures. Only the date with the **Date imprint** option will be printed, even if **Print set** is enabled with **Date** selected in the print set screen.

Creating a Print Order by Date, Category, or Folder

Create print orders by shooting date or category (up to 99 pictures, nine prints for each).

1 Tap **[MENU]** in the list by date screen (68), the category list screen (71), or the favorites folder list screen (78).

Tap **[MENU]** in the list by date screen to display the list by date menu.

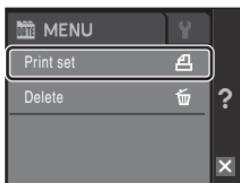
Tap **[MENU]** in the category list screen to display the auto sort menu.

Tap **[MENU]** in the favorites folder list screen to display the favorite pictures menu.



2 Tap **Print set**.

The print set screen is displayed.



3 Tap the desired date, category, or favorites folder.

If a date was selected: Proceed to step 4.



If a category or folder was selected:

- Tap **+** or **-** to specify the number of prints.
- The category or favorites folder selected for printing can be recognized by the numeral indicating the number of copies to be printed. Tap **-** until the numeral is not displayed to cancel the selection for that category or favorites folder.
- Proceed to step 5 once all print order settings have been applied.



4 Tap the desired number of prints.

Monitor display returns to the print set screen. The number of prints is displayed for the specified date. Tap **0** to cancel the selection for that date.

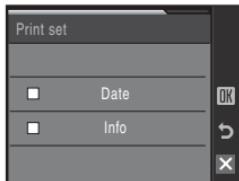
To create print orders for other dates, repeat steps 3 and 4. Proceed to step 5 once all print order settings have been applied.

**5 Tap **OK**.****6 Choose whether or not to print shooting date and photo information.**

Tap **Date** to print shooting date on all pictures in the print order.

Tap **Info** to print photo information (shutter speed and aperture) on all pictures in the print order.

Tap **OK** to complete the print order and exit.



Print Set

When pictures other than those taken on the selected date, or those sorted to categories or folders other than that specified, have been marked for printing, the confirmation dialog, **Save print marking for other dates?** or **Save print marking for other images?**, will be displayed.

- Tap **Yes** to add the previously marked pictures to the current print set.
- Tap **No** to remove print marking from the pictures previously marked.

Shooting Options: The Shooting Menu

The shooting menu contains the following options.

Image mode*

108

Choose image size and quality.

White balance

110

Match white balance to the light source.

Exp. +/- (Exposure compensation)

112

Alter exposure to make pictures brighter or darker.

Continuous

113

Change settings for Continuous or BSS (best shot selector).

ISO sensitivity

115

Control camera's sensitivity to light.

AF area mode

116

Choose where the camera focuses.

Distortion control

119

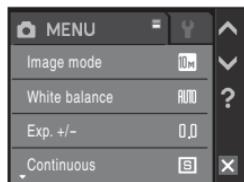
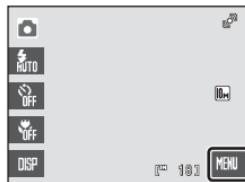
Correct the distortion.

- * The Image mode setting is also available from other shooting menus (except the movie menu).

Displaying the Shooting Menu

Enter (auto) mode (24).

Tap to display the shooting menu.



To exit the shooting menu, tap .

Functions that Cannot Be Applied Simultaneously

Some functions cannot be enabled in conjunction with others (120).

Image Mode

Set to (auto) → (Shooting menu) → Image mode

Choose an image mode, which is the combination of image size and image quality (compression), according to how you plan to use the picture and the capacity of the internal memory or memory card. The larger the image, the larger the size at which it can be printed or displayed without becoming noticeably "grainy," limiting the number of pictures that can be recorded.

Option	Size (pixels)	Description
High (3648★)	3,648 × 2,736	Highest quality, suitable for enlargements or high-quality prints. The compression ratio is approximately 1:4.
Normal (3648) (default setting)	3,648 × 2,736	Best choice in most situations. The compression ratio is approximately 1:8.
Normal (2592)	2,592 × 1,944	
Normal (2048)	2,048 × 1,536	Smaller size allows more pictures to be stored. The compression ratio is approximately 1:8.
PC screen (1024)	1,024 × 768	Suited to display on a computer monitor. The compression ratio is approximately 1:8.
TV screen (640)	640 × 480	Suited to full-screen display on a television, or distribution by e-mail. The compression ratio is approximately 1:8.
16:9 (3584)	3,584 × 2,016	Pictures with an aspect ratio of 16:9 can be taken. The compression ratio is approximately 1:8.

The icon for the current setting is displayed in the monitor in shooting and playback modes (□ 9, 10).

Image Mode

Change made to this setting applies to all shooting modes (except movie menu).

Number of Exposures Remaining

The following table lists the approximate number of pictures that can be stored in internal memory and on a 512 MB memory card. Note that the number of pictures that can be stored will differ depending on the composition of the picture (due to JPEG compression). In addition, this number may differ depending on the make of memory card, even if the capacity for the memory card is the same.

Setting	Internal memory (approx. 44 MB)	Memory card ¹ (512 MB)	Print size ² (cm/in.)
 High (3648★)	9	95	31 × 23/12.2 × 9
 Normal (3648)	18	190	31 × 23/12.2 × 9
 Normal (2592)	35	375	22 × 16.5/8.7 × 6.5
 Normal (2048)	55	590	17 × 13/6.7 × 5.1
 PC screen (1024)	188	2010	9 × 7/3.5 × 2.8
 TV screen (640)	353	3775	5 × 4/2 × 1.6
 16:9 (3584)	25	265	30 × 17/11.8 × 6.7

- ¹ If the number of exposures remaining is 10,000 or more, the number of exposures remaining display shows "9999".
- ² All figures are approximate. Print size at an output resolution of 300 dpi. Print sizes are calculated by dividing the number of pixels by printer resolution (dpi) and multiplying by 2.54 cm (1 in.). However, at the same image size, pictures printed at higher resolutions will print smaller than the size indicated, and those printed at lower resolutions will print larger than the size indicated.

White Balance

Set to (auto) → (Shooting menu) → White balance

The color of light reflected from an object varies with the color of the light source. The human brain is able to adapt to changes in the color of the light source, with the result that white objects appear white whether seen in the shade, direct sunlight, or under incandescent lighting. Digital cameras can mimic this adjustment by processing images according to the color of the light source. This is known as "white balance." For natural coloration, choose a white balance setting that matches the light source before shooting. Although the default setting, **Auto**, can be used under most types of lighting, you can apply the white balance setting suited to a particular light source to achieve more accurate results.

Auto (default setting)

White balance automatically adjusted to suit lighting conditions. Best choice in most situations.

Preset manual

Neutral-colored object used as reference to set white balance under unusual lighting conditions. See "Preset Manual" for more information (111).

Daylight

White balance adjusted for direct sunlight.

Incandescent

Use under incandescent lighting.

Fluorescent

Use under most types of fluorescent lighting.

Cloudy

Use when taking pictures under overcast skies.

Flash

Use with the flash mode.

The effects of the selected option can be previewed in the monitor. At settings other than **Auto**, the icon for the current setting is displayed in the monitor (9).

Flash Mode

At white-balance settings other than **Auto** or **Flash**, turn the flash off (32).

Preset Manual

Preset manual is used with mixed lighting or to compensate for light sources with a strong color cast (for example, to make pictures taken under a lamp with a red shade look as though they had been taken under white light).

- 1 Place a white or gray reference object under the lighting that will be used during shooting.

- 2 Tap **PRE Preset manual** in the white balance menu.

The camera zooms in.



- 3 Frame the reference object in the monitor.

To apply the most recently measured value for preset manual, tap **Cancel**.



- 4 Tap **Measure** to measure a value for preset manual.

The shutter is released and the new white-balance value is set.

No pictures are recorded.



Note on Preset Manual

Regardless of the flash mode selected, the flash will not fire when the camera measures a value with step 4. Therefore, a white-balance value cannot be measured when the flash fires.

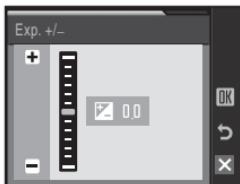
Exp.+/-

Set to (auto) → (Shooting menu) → Exp.+/-

Exposure compensation is used to alter exposure from the value suggested by the camera to make pictures brighter or darker.

- When the subject is too dark: tap to adjust the exposure compensation to "+" side.
- When the subject is too bright: tap to adjust the exposure compensation to "-" side.
- Exposure compensation can be set to values between -2.0 and +2.0 EV.

At settings other than **0.0**, the indicator for the current setting is displayed in the monitor (9).



Exposure Compensation Value

The exposure compensation value applied in (auto) mode is stored in the camera's memory even after the camera is turned off, and reapplied the next time (auto) mode is selected.

The exposure compensation value applied in any scene mode or smile mode reverts to **0.0** whenever another shooting mode is selected or the camera is turned off.

Using Exposure Compensation

The camera tends to lower exposure when the frame is dominated by brightly lit objects and to increase exposure when the frame is mostly dark. Positive compensation may therefore be required to capture the brilliancy of very bright objects that fill the frame (for example, sunlit expanses of water, sand, or snow) or when the background is much brighter than the main subject. Negative compensation may be called for when large areas of the frame contain very dark objects (for example, a swath of dark green leaves) or when the background is much darker than the main subject.

Continuous

Set to (auto) → (Shooting menu) → Continuous

Change settings to Continuous or BSS (best shot selector). Flash will be switched off for Continuous, BSS or Multi-shot 16, and focus, exposure and white balance are fixed at the values for the first picture in each series.

Single (default setting)

One shot is taken each time shutter-release button is pressed.

Continuous

While the shutter-release button is held down, up to 6 pictures are taken at a rate of about 1.2 frames per second (fps) when **Image mode** is set to **Normal (3648)**.

BSS (Best Shot Selector)

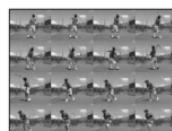
The “best shot selector” is recommended when shooting with the flash off or the camera zoomed in, or in other situations in which inadvertent motion can result in blurred pictures. When BSS is on, the camera takes up to ten pictures while the shutter-release button is held down. The sharpest picture in the series is automatically selected and saved.

Multi-shot 16

Each time the shutter-release button is pressed, camera takes 16 shots at about 7 frames per second and arranges them in a single picture with **Image mode** setting set to **Normal (2592)**.

Digital zoom is not available.

ISO sensitivity (115) is fixed at **Auto**.



Intvl timer shooting

Camera takes pictures automatically at specified interval (114).

At settings other than **Single**, the indicator for the current setting is displayed in the monitor (9).

Note on Continuous Shooting

The maximum frame rate with continuous shooting may vary, depending upon the current image mode setting and the memory card used.

Note on Multi-shot 16

If bright objects such as the sun or electric lights are captured during shooting with the **Multi-shot 16** option, vertical streaks of light may appear in the recorded images. We recommend that you avoid capturing bright objects during shooting with the **Multi-shot 16** option.

Note on BSS

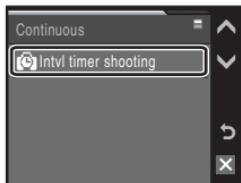
BSS may not produce the desired results if the subject moves or the composition changes while the shutter-release button is pressed all the way down.

Interval Timer Photography

Pictures are taken automatically at specified intervals.

Choose an interval of **30 s**, **1 min**, **5 min**, or **10 min**.

- 1 Tap **Intvl timer shooting** in the **Continuous** menu.



- 2 Tap the desired interval between shots.

The maximum number of pictures varies according to the specified interval.

30 s: up to 600 pictures

1 min: up to 300 pictures

5 min: up to 60 pictures

10 min: up to 30 pictures



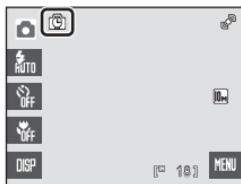
- 3 Tap **X** to exit the menu.

The camera returns to shooting mode.

- 4 Press the shutter-release button all the way down to take the first picture and initiate interval timer shooting.

Monitor turns off and power-on lamp blinks between shots.

The monitor turns on automatically right before the next shot is taken.



- 5 Press the shutter-release button all the way down again to end recording.

Recording will end automatically if the internal memory or memory card becomes full, or when the maximum number of pictures have been taken.

✓ Notes on Power Source

- To prevent the camera from turning off unexpectedly during recording, use a fully charged battery.
- If the AC Adapter EH-62D (available separately) is used, COOLPIX S230 can be powered from a home electrical outlet. Do not use any other AC adapters as it will cause the camera to heat up or malfunction.

More Information

See "Image/Sound File and Folder Names" (144) for more information.

ISO sensitivity

Set to (auto) → (Shooting menu) → ISO sensitivity

Sensitivity is a measure of how quickly the camera reacts to light. The higher the sensitivity, the less light needed to make an exposure. Although a high ISO rating is suited for taking pictures of subjects in action or in poor lighting, high sensitivity is often associated with “noise” - randomly spaced, brightly colored pixels concentrated in dark parts of the image.

Auto (default setting)

Sensitivity is ISO 80 under normal conditions; when lighting is poor, the camera compensates by raising sensitivity to a maximum of ISO 800.

High ISO auto

ISO sensitivity is automatically adjusted within the range between 80 and 1600, depending upon the brightness of the scene.

80, 100, 200, 400, 800, 1600, 2000

Sensitivity will be locked at the specified value.

- **Motion detection** (134) does not function when any option other than **Auto** is selected.

The current setting is displayed in the monitor (9). If **Auto** is selected and the sensitivity is raised above ISO 80, the icon will be displayed (33). When **High ISO auto** is selected, is displayed.

AF Area Mode

Set to (auto) → (Shooting menu) → AF area mode

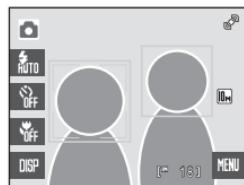
Use this option to determine where the camera focuses. When digital zoom is in effect, focus will be on the center of the screen regardless of the settings used.



Face priority (default setting)

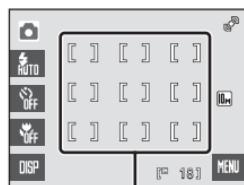
When the camera recognizes a face looking toward the camera, the camera will focus on that face. See "Face Priority" (118) for more information. If more than one face is recognized, focus will be on the face closest to the camera.

When shooting pictures of subjects other than people, or framing a subject with which no face is recognized, **AF area mode** will switch to **Auto**, and the camera will automatically select the focus area (one of nine) containing the subject closest to the camera.



Auto

Camera automatically selects the focus area (one of nine) containing the subject closest to the camera. Press the shutter-release button halfway to activate the focus area. When the shutter-release button is pressed halfway, the focus area selected by the camera will be displayed in the monitor.

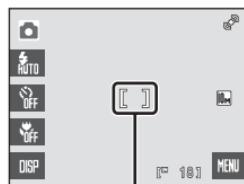


Focus areas



Center

Camera focuses on subject in center of frame. Center focus area is always displayed.



Focus area

 **Focus Lock**

To focus on off-center subjects when **Center** is selected for **AF area mode**, use focus lock as described below.

- 1 Position the subject in the center of frame.



- 2 Press the shutter-release button halfway.

- Confirm that the focus area is green.
- Focus and exposure are locked.



- 3 Continue holding down the shutter-release button halfway and recompose the picture.

- Be sure that the distance between the camera and the subject does not change.



- 4 Press the shutter-release button the rest of the way down to take the picture.

 **More Information**

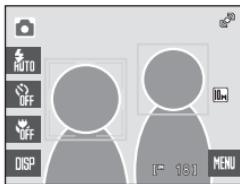
See "Autofocus" (29) for more information.

Face Priority

The camera automatically detects and focuses on a face looking toward the camera. The face-priority function is activated when **Face priority** (default setting) is selected for **AF area mode** (116), when shooting in **Scene auto selector** (37), **Portrait** (37), or **Night portrait** (38) scene mode, or when shooting in smile mode (50).

1 Frame a picture.

When the camera recognizes a face looking toward the camera, that face will be framed by a yellow double border.



When the camera detects more than one face, operation varies, depending upon the shooting mode, as follows.

Shooting mode	Faces framed by a double border	The number of faces to be recognized
(auto) mode (Face priority)	The face closest to the camera * The other faces are framed by a single border.	Up to 12
Scene mode: Scene auto selector, Portrait, Night portrait	The face closest to the center of frame * The other faces are framed by a single border.	Up to 3
Smile mode	The face closest to the center of frame * The other faces are framed by a single border.	Up to 3

The camera focuses on the face framed by the double border. To select another face for focusing, tap a face framed by a single border. The border surrounding the selected face will change to a double border.

2 Press the shutter-release button halfway.

Focus will be on the face framed by the double border. The double border will glow green once focus has been locked.

When the camera is unable to focus, the double border will blink. Press the shutter-release button halfway again and focus.

Press the shutter-release button the rest of the way down to take the picture.

You don't need to press the shutter-release button halfway in smile mode. If the camera detects the smiling face, the shutter is automatically released (50).



Notes on Face-Priority

- In **Face priority**, if the shutter-release button is pressed halfway when no faces are recognized, AF area mode will be set to **Auto**.
- If no face is detected when the shutter-release button is pressed halfway in **Portrait** or **Night portrait** scene mode, or smile mode, the camera will focus on the subject in the center of the frame.
- The camera may be unable to detect faces in the following situations:
 - When faces are partially hidden by sunglasses or other obstructions
 - When the subject is not looking directly at the camera
 - When faces take up too much or too little of the frame
- The camera's ability to detect faces depends on a variety of factors, including whether or not the subject is facing the camera.
- In some rare cases, the subject may not be in focus despite the fact that the double border glows green (29). Should this occur, switch to **(auto)** mode and shoot with the touch AF/AE function (26), or set **AF area mode** to **Center**, refocus on another subject positioned at the same distance from the camera as the actual portrait subject, and use focus lock (117).
- When pictures in which a face was detected during shooting are played back, the pictures will be automatically rotated for playback display, according to the orientation of the face detected.

Distortion Control

Set to **(auto)** → **MENU** (Shooting menu) → Distortion control

Specify whether or not the distortion is corrected. Enabling distortion control reduces the size of the frame.

On

Distortion at frame peripheries is corrected.

Off (default setting)

No distortion correction performed.

At settings other than **Off**, the icon for the current setting is displayed in the monitor (9).

Functions that Cannot Be Applied Simultaneously

Restrictions apply to the following settings in (auto) mode.

Flash mode

Flash mode is automatically fixed at (Off) when **Continuous**, **BSS**, or **Multi-shot 16** is selected for the **Continuous** setting. Selecting **Single** or **Intvl timer shooting** for **Continuous** setting restores the last flash mode setting applied.

Self-timer

If self-timer is on, only one picture will be taken when the shutter is released, regardless of settings selected for the **Continuous** setting. The last **Continuous** setting applied is restored when picture is taken or self-timer is turned off.

Continuous

Image mode is automatically fixed at **Normal (2592)** and **ISO sensitivity** is automatically fixed at **Auto** when **Multi-shot 16** is selected for the **Continuous** setting.

The last **Image mode** and **ISO sensitivity** settings applied are restored when any setting other than **Multi-shot 16** is selected for the **Continuous** setting.

Distortion control

When **Distortion control** is set to **On**, the **Continuous** setting is automatically set to **Single**.

Even when the **Distortion control** option is disabled, the **Continuous** setting does not change.

Playback Options: The Playback Menu

The playback menu contains the following options.

Print set

103

Select pictures to print and the number of copies for each.

Slide show

123

View pictures stored in the internal memory or on a memory card in an automatic slide show.

Delete

124

Delete all or selected pictures.

Protect

124

Protect selected pictures from accidental deletion.

Rotate image

125

Change the orientation of pictures.

Copy

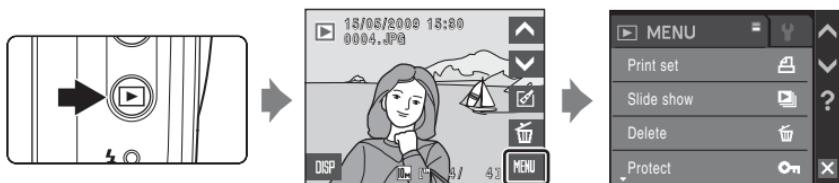
125

Copy files between memory card and internal memory.

Displaying the Playback Menu

Enter the playback mode by pressing the **■** button (30).

Tap **MENU** to display the playback menu.



To exit the playback menu, tap **X**.

Selecting Pictures

The picture selection screen, as shown at right, will be displayed with the following menus:

- **Playback menu:** Print set>Select images

(103)

- Delete>Erase selected images**

(124)

Protect (124)

Rotate image (125)

Copy>Selected images (125)

- **Setup menu:** Welcome screen (129)

Follow the procedures described below to choose the pictures.



- 1 Tap the desired picture to select and tap again to deselect.

Only one picture can be selected for **Rotate image** and **Welcome screen**.

Tap or rotate the zoom control to **T** () to switch to full-frame playback.

Tap or rotate the zoom control to **W** () to switch back to 12-thumbnail display.

When picture is selected, a check mark () is displayed at the top left corner of the current picture.

When selecting pictures for **Print set**, tap or to set the number of copies for each.



- 2 Tap **OK** to apply picture selection.

Slide Show

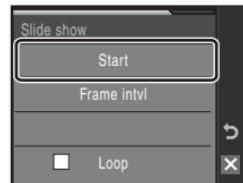
Press the **▶** button (Playback mode) → **MENU** (Playback menu) → Slide show

Play back pictures, stored in the internal memory or on a memory card, one by one in an automated "slide show."

1 Tap Start.

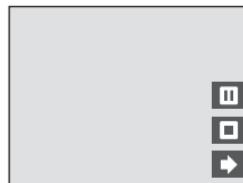
To change the interval between pictures, tap **Frame intvl**, and select the desired interval time before choosing **Start**.

To repeat the slide show automatically, enable **Loop** before choosing **Start**. The check mark (✓) will be added to the loop option when enabled.



2 The slide show begins.

Tap to display the operation controls and to hide them.



Tap a control displayed to perform the corresponding operation. The following operations are available.

To	Use	Description
Pause		Pause playback. The following operations can be performed while playback is paused using the controls displayed at right in the monitor.
		Rewind slide show back one frame. Touch and hold for continuous frame-by-frame rewind.
		Advance slide show forward one frame. Touch and hold for continuous frame-by-frame advance.
		Resume playback.
End		End playback and return to the playback menu.

Notes on Slide Show

- Only the first frame of movies (85) included in slide shows is displayed.
- Even if **Loop** is selected, the maximum playback duration for a slide show is 30 minutes (136).

Delete

Press the **▶** button (Playback mode) → **MENU** (Playback menu) → Delete 

Delete selected pictures or all pictures.

Erase selected images

Delete selected pictures (122).

Erase all images

Delete all pictures.

Notes on Deletion

- Once deleted, pictures cannot be recovered. Transfer important images to a computer before deletion.
- Pictures marked with the  icon are protected and cannot be deleted.

Protect

Press the **▶** button (Playback mode) → **MENU** (Playback menu) → Protect 

Protect selected pictures from accidental deletion.

Choose pictures in the picture selection screen to apply the protect option (Selecting Pictures → 122).

Note, however, that formatting the camera's internal memory or the memory card will permanently delete protected files (137).

Protected pictures are recognized by the  icon (11, 52).

Rotate Image

Press the **▶** button (Playback mode) → **MENU** (Playback menu) → Rotate image 

After shooting, set the orientation in which pictures are displayed during playback. You can rotate still pictures 90 degrees clockwise or 90 degrees counterclockwise. Pictures that were recorded in the portrait (vertical) orientation can be rotated up to 180 degrees in either direction.

Select a picture in the picture selection screen (122). When the **Rotate image** screen is displayed, tap  or  to rotate the picture 90 degrees.



Rotate 90 degrees counterclockwise



Rotate 90 degrees clockwise

Tap **OK** to set the orientation displayed, and save the orientation data with the picture.

Copy

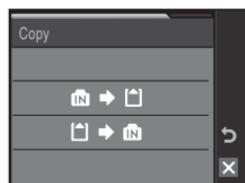
Press the **▶** button (Playback mode) → **MENU** (Playback menu) → Copy 

Copy pictures between the internal memory and a memory card.

1 Tap the desired option from the copy screen.

 : Copy pictures from internal memory to memory card.

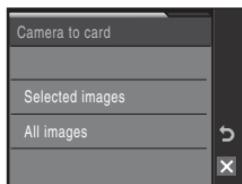
 : Copy pictures from memory card to internal memory.



2 Tap the desired copy option.

Selected images: Copy pictures selected from the picture selection screen (122).

All images: Copy all pictures.



Notes on Copying Pictures

- JPEG-, AVI-, and WAV-format images can be copied. Images recorded in any other formats cannot be copied.
- If voice memos (66) are attached to pictures selected for copying, voice memos are copied with the pictures.
- Sound files recorded using Voice Recording (86) can be copied using the **Copy sound files** option (90) in audio playback mode.
- Pictures taken with another make of camera or that have been modified on a computer cannot be copied.
- When copying pictures for which **Print set** (103) options are enabled, the print set settings will not be copied. However, when copying pictures for which **Protect** (124) is enabled, the protect setting will be copied.
- Pictures copied from the internal memory or a memory card cannot be displayed in auto sort mode (71).
- Even if a picture added to favorites folder (77) is copied, the contents of the favorites folder will not be copied.

Memory contains no images. Message

If there are no pictures stored on the memory card when playback mode is applied, the message

Memory contains no images. will be displayed. Tap **MENU** to display the copy option screen, and copy the pictures stored in the camera's internal memory to the memory card.

More Information

See "Image/Sound File and Folder Names" (144) for more information.

Basic Camera Setup: The Setup Menu

The setup menu contains the following options.

Electronic VR

 128

Specify the electronic vibration reduction setting for taking still pictures.

Welcome screen

 129

Select screen displayed when camera is turned on.

Date

 130

Set camera clock and choose home and destination time zones.

Monitor settings

 133

Adjust post-shooting image review and monitor brightness settings.

Date imprint

 133

Imprint date on pictures.

Motion detection

 134

Adjust the motion detection setting to reduce the effects of subject movement and camera shake when taking still pictures.

Digital zoom

 135

Adjust settings for using digital zoom.

Sound settings

 136

Adjust sound settings.

Auto off

 136

Set time before camera enters standby mode.

Format memory/Format card

 137

Format internal memory or memory card.

Language

 138

Choose the language used for camera monitor display.

Video mode

 138

Adjust settings necessary for connection to television.

Blink warning

 138

Set whether or not to detect human subjects with eyes closed when shooting with the face priority ( 118).

Reset all

 139

Restore camera settings to default values.

Firmware version

 142

Display camera firmware version.

Displaying the Setup Menu

Choose **Y** tab in the menu screen.

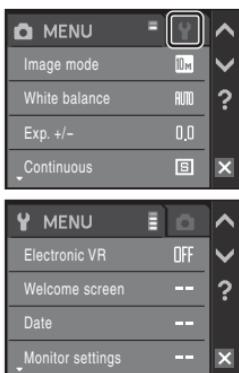
1 Tap **MENU** to display the menu screen.



2 Tap the **Y** tab.

The setup menu items will be selectable.

To exit the setup menu, tap **X** or tap other tabs.



Electronic VR

Tap **MENU** → **Y** (Setup menu) (128) → Electronic VR

Choose whether to use electronic VR (vibration reduction) when taking still pictures.

Auto

When all of the following conditions are met while taking still pictures, electronic VR is applied and the effects of camera shake are reduced.

- The flash is turned off or set to slow sync mode.
- The shutter speed is slow.
- The **Continuous** setting is set to **Single**.

Off (default setting)

Electronic VR is disabled.

When **Auto** is selected, appears on the monitor (9), and electronic VR is applied depending on shooting conditions.

Notes on Electronic Vibration Reduction

- Except during slow sync mode, **Electronic VR** will not activate when flash is used.
- If the exposure period exceeds a certain period of time, **Electronic VR** will not function.
- The effectiveness of **Electronic VR** decreases as camera shake increases.
- **Electronic VR** does not reduce the effects of subject movement.
- Saving a picture on which **Electronic VR** is applied may take some time.
- **Electronic VR** will not activate when sensitivity is ISO 800 or above.
- **Electronic VR** cannot be used together with date imprint (133). When using date imprint, setting **Electronic VR** to **Auto** automatically changes the date imprint setting to **Off**.
- **Electronic VR** and auto flash with red-eye reduction cannot be used together.

Electronic VR for Movies

To compensate for vibration while shooting a movie, go to the movie menu (83) and enable **Electronic VR** (84).

Welcome Screen

Tap **MENU** →  (Setup menu) (128) → Welcome screen

You can select the welcome screen to be displayed when the camera is turned on.

None (default setting)

No welcome screen will be displayed.

COOLPIX

Displays a welcome screen.

Select an image

Select a picture in the internal memory or on the memory card for the welcome screen. Choose a picture in the picture selection screen and tap **OK**.

As the selected image is stored in the camera, the image will appear in the welcome screen even if the original picture is deleted.

- Pictures taken at an **Image mode** setting of **16:9 (3584)** (108), and copies created at a size of 320 × 240 size or smaller using the crop (56) or small picture (65) function, cannot be used.

Date

Tap **MENU** → **(Setup menu) (128)** → Date

Set the camera clock and choose home and travel destination time zones.

Date

Set camera clock to current date and time.

See step 5 and 6 of the section, “Setting Display Language, Date and Time” (21) for more information.

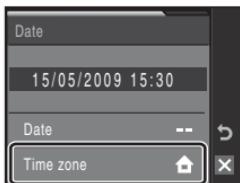
Time zone

(home time zone) can be specified and daylight saving enabled or disabled from **Time zone** options. When **(travel destination)** is selected, the time difference (132) is automatically calculated and the date and time in the selected region are recorded. Useful when travelling.

Setting Travel Destination Time Zone

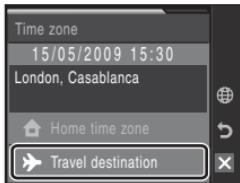
1 Tap **Time zone**.

The time zone menu is displayed.



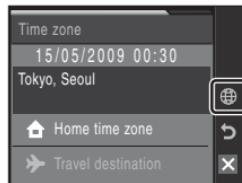
2 Tap **(travel destination)**.

The date and time displayed on the monitor changes according to the region currently selected.



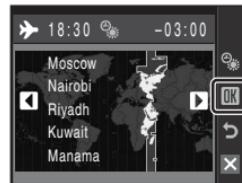
3 Tap .

The time zone selection screen is displayed.

**4** Tap  or  to choose the travel destination time zone and tap .

If daylight saving time is in effect, tap . The daylight saving time option is enabled and the camera clock is advanced one hour. Tapping  toggles the daylight saving time option on ( yellow) and off ( white).

While the travel destination time zone is selected,  icon will be displayed in the monitor when the camera is in shooting mode.



The Clock Battery

The clock battery charges when the main battery is installed or an AC adapter is connected, and can provide several days of backup power after about ten hours of charging.

(Home Time Zone)

- To switch to the home time zone, tap  **Home time zone** in step 2.
- To change the home time zone, tap  **Home time zone** in step 2 and perform steps 3 and 4, to set the home time zone.

Daylight Saving Time

When daylight saving time starts or ends, turn the daylight saving time option on or off from the time zone selection screen displayed in step 4.

 **Time Zones**

The camera supports the time zones listed below. For time differences not listed below, set the camera clock to local time.

UTC +/-	Location	UTC +/-	Location
-11	Midway, Samoa	+1	Madrid, Paris, Berlin
-10	Hawaii, Tahiti	+2	Athens, Helsinki, Ankara
-9	Alaska, Anchorage	+3	Moscow, Nairobi, Riyadh, Kuwait, Manama
-8	PST (PDT): Los Angeles, Seattle, Vancouver	+4	Abu Dhabi, Dubai
-7	MST (MDT): Denver, Phoenix	+5	Islamabad, Karachi
-6	CST (CDT): Chicago, Houston, Mexico City	+5.5	New Delhi
-5	EST (EDT): New York, Toronto, Lima	+6	Colombo, Dhaka
-4	Caracas, Manaus	+7	Bangkok, Jakarta
-3	Buenos Aires, Sao Paulo	+8	Beijing, Hong Kong, Singapore
-2	Fernando de Noronha	+9	Tokyo, Seoul
-1	Azores	+10	Sydney, Guam
±0	London, Casablanca	+11	New Caledonia
		+12	Auckland, Fiji

Monitor Settings

Tap → (Setup menu) (128) → Monitor settings

Adjust post-shooting image review and monitor brightness settings.

Image review

On (default setting): Picture is automatically displayed in the monitor immediately after it is taken and the monitor display returns to shooting mode.

Off: Picture is not displayed after it is taken.

Brightness

Choose from five settings for monitor brightness. The default setting is **3**.

Date Imprint

Tap → (Setup menu) (128) → Date imprint

The date and time of recording can be imprinted directly onto pictures, allowing the information to be printed even from printers that do not support date printing (104).

Off (default setting)

Date and time are not imprinted on pictures.

Date

Date is imprinted on the bottom right corner of pictures taken while this option is in effect.

Date and time

Date and time are imprinted on the bottom right corner of pictures taken while this option is in effect.

At settings other than **Off**, the icon for the current setting is displayed in the monitor (9).

Date Imprint

- Imprinted dates form a permanent part of image data and cannot be deleted.
- Dates imprinted at an **Image mode** setting (108) of **TV screen (640)** may be difficult to read. Choose **PC screen (1024)** or larger when using date imprint.
- The date is recorded using the format selected in the setup menu's **Date** item (20, 130).
- Date imprint cannot be used together with **Electronic VR** (128). Selecting date imprint while **Electronic VR** is set to **Auto** automatically changes the **Electronic VR** setting to **Off**.
- The date is not imprinted in the following situations:
 - pictures taken in **Sports** (38), **Museum** (41), or **Panorama assist** (42) scene mode
 - pictures taken with **On** selected for **Blink proof** (51) in smile mode
 - pictures taken with **Continuous** or **BSS** selected for the **Continuous** setting in the shooting menu (113)
 - movies (82)

Date Imprint and Print Set

When printing from DPOF-compatible printers which support printing of shooting date and photo information, the date and information can be printed on pictures without date and time imprinted on them, using options in the **Print set** menu (103).

Motion Detection

Tap **MENU** →  (Setup menu) (128) → Motion detection

Enable motion detection to reduce the effects of camera shake and subject movement when shooting still pictures.

Auto (default setting)

When the camera detects the subject movement or camera shake, the shutter speed will be increased for reducing the effects of them.

However, motion detection does not function in the following situations.

- When the flash mode is set to  (fill flash)
- When the **ISO sensitivity** option (115) is set to **High ISO auto** or ISO sensitivity is fixed at a particular value in  (auto) mode
- When **Continuous** (113) is set to **Multi-shot 16**
- When shooting in some scene modes (37)

Off

Motion detection is not enabled.

At settings other than **Off**, the icon for the current setting is displayed in the monitor (□ 9, 25). When the camera detects subject movement or camera shake and the shutter speed is increased, the motion detection icon will turn green.

✓ Notes on Motion Detection

- Motion detection may be unable to completely eliminate the effects of the camera shake and subject movement in some situations.
- Motion detection may not function if the subject exhibits significant movement or is too dark.
- The pictures taken may become somewhat grainy.

Digital Zoom

Tap **MENU** → **¶** (Setup menu) (□ 128) → Digital zoom

Adjust settings for using digital zoom.

On (default setting)

When the camera is zoomed in to the maximum optical zoom position, rotating the zoom control to **T** triggers digital zoom (□ 27).

Off

Digital zoom will not be activated (except when shooting a movie).

✓ Notes on Digital Zoom

- When digital zoom is in effect, **AF area mode** is set to **Center** (□ 116).
- Digital zoom cannot be used in the following situations.
 - When **Scene auto selector**, **Portrait**, or **Night portrait** is selected in scene mode
 - When smile mode is selected
 - When **Continuous** (□ 113) is set to **Multi-shot 16**
 - Just before recording a movie (Up to 2x zoom can be activated while recording movies)

Sound Settings

Tap **MENU → ♫ (Setup menu) (128) → Sound settings**

Adjust the following sound settings.

Button sound

Turn button sound **On** or **Off**.

When **On** (default setting) is selected, a beep will sound once when operations are completed successfully, twice when focus has been locked, and three times when an error is detected. Start-up sound will also play when the camera is turned on.

Shutter sound

Choose shutter sound from **On** (default setting) or **Off**.

Auto Off

Tap **MENU → ♫ (Setup menu) (128) → Auto off**

When the camera is on and a period of time passes without any operations having been performed, the camera will enter standby mode (19) to save power.

Once the camera has entered standby mode, the power-on lamp will blink, and if no operations are performed for another three minutes, the camera will turn off.

Choose the time allowed to elapse before the camera enters standby mode if no operations are performed from **30 s, 1 min** (default setting), **5 min**, and **30 min**.

Canceling Standby Mode

Cancel standby mode and reactivate the monitor by pressing any of the following buttons.

- the power switch
- the shutter-release button
- the button
- the button

Note on Auto Off

Regardless of the option selected, the monitor will remain on for three minutes when menus are displayed, a maximum of 30 minutes during slide show playback, and 30 minutes when the AC adapter is connected.

Format Memory/Format Card

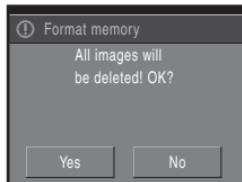
Tap **MENU** → **W** (Setup menu) (128) → Format memory/ Format card

Use this option to format the internal memory or a memory card.

Formatting the Internal Memory

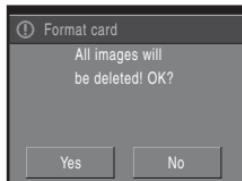
To format the internal memory, remove the memory card from the camera.

The **Format memory** option appears in the setup menu.



Formatting a Memory Card

When the memory card is inserted in the camera, the **Format card** option appears in the setup menu.



✓ Formatting Internal Memory and Memory Cards

- Formatting the internal memory or memory cards permanently deletes all data. Be sure to transfer important pictures to a computer before formatting.
- Formatting the internal memory or memory card restores favorites folder icon settings (76) to the default setting (displayed as number).
- Do not turn the camera off or open the battery-chamber/memory card slot cover during formatting.
- The first time you insert the memory cards used in other devices into the COOLPIX S230, be sure to format them using this camera.

Language

Tap **MENU →   (Setup menu) (  128) → Language**

Choose one of 24 languages for display of camera menus and messages.

�����	Czech
Dansk	Danish
Deutsch	German
English	(default setting)
Espa�ol	Spanish
�����	Greek
Fran�ais	French
Indonesia	Indonesian
Italiano	Italian
Magyar	Hungarian
Nederlands	Dutch
Norsk	Norwegian

Polski	Polish
Portugu�s	Portuguese
Русский	Russian
Suomi	Finnish
Svenska	Swedish
T�rk�e	Turkish
中文简体	Simplified Chinese
中文繁體	Traditional Chinese
日本語	Japanese
한글	Korean
ภาษาไทย	Thai
���	Arabic

Video Mode

Tap **MENU →   (Setup menu) (  128) → Video mode**

Adjust settings for connection to a television. Choose from **NTSC** and **PAL**.

Blink Warning

Tap **MENU →   (Setup menu) (  128) → Blink warning**

Set whether or not to detect human subjects with eyes closed when shooting with the face priority (  118) in **  (auto)** (  24), **Scene auto selector** scene mode (  43), **Portrait** scene mode (  44), or **Night portrait** scene mode (  44).

On (default setting)

When the camera detects that one or more human subjects may have closed eyes shortly after recognizing the faces and shooting them, the blink warning screen will appear in the monitor.

The face of a portrait subject, whose eyes may have been closed when the shutter was released, is framed by a yellow border. Should this occur, check the picture and decide whether or not another picture should be taken.

Off

Blink warning is not enabled.

Operating the Blink Warning Screen

When the camera detects any human subjects with closed eyes, the blink warning screen is displayed and then, the screen shown at right will appear.

The following operations are available in the blink warning screen.

If no operations are performed for a few seconds, the camera automatically returns to shooting mode.



Option	Use	Description
Enlarge and display the detected face	T (Q)	Rotate the zoom control to T (Q). If the camera detected more than one human subject with closed eyes, tap or to switch over the faces.
Switch to full-frame playback	W (Q)	Rotate the zoom control to W (Q).
Delete the picture		Tap .
Switch to shooting mode		Tap the monitor, , or . The shutter-release button can also be pressed to return to shooting mode.

Reset All

Tap → (128) → Reset all

When **Reset** is selected, the camera's settings will be restored to their default values.

Pop-up Menu

Option	Default value
Flash mode (32)	Auto
Self-timer (34)	Off
Macro mode (35)	Off

Basic Camera Setup: The Setup Menu

Scene Mode

Option	Default value
Scene mode setting in the shooting-mode selection menu (☞ 36)	Scene auto selector
White balance in Food mode (☞ 45)	Center

Smile Menu

Option	Default value
Blink proof (☞ 51)	On

Movie Menu

Option	Default value
Movie options (☞ 83)	TV movie 640★
Electronic VR (☞ 84)	Off

Shooting Menu

Option	Default value
Image mode (☞ 108)	Normal (3648)
White balance (☞ 110)	Auto
Exp.+/- (☞ 112)	0.0
Continuous (☞ 113)	Single
Intvl timer shooting (☞ 114)	30 s
ISO sensitivity (☞ 115)	Auto
AF area mode (☞ 116)	Face priority
Distortion control (☞ 119)	Off

Setup Menu

Option	Default value
Welcome screen (☞ 129)	None
Image review (☞ 133)	On
Brightness (☞ 133)	3
Date imprint (☞ 133)	Off
Motion detection (☞ 134)	Auto
Digital zoom (☞ 135)	On
Button sound (☞ 136)	On
Shutter sound (☞ 136)	On
Auto off (☞ 136)	1 min
Blink warning (☞ 138)	On

Others

Option	Default value
Paper size (☞ 99, 100)	Default
Slide show (☞ 123)	3 s

- Choosing **Reset all** also clears the current file number (☞ 144) from the memory. Numbering will continue from the lowest number available. To reset file numbering to "0001", delete all pictures (☞ 124) before selecting **Reset all**.
- The following menu settings will remain unaffected when menus are reset with **Reset all**.

Shooting menu: Preset manual data (☞ 111) acquired for **White balance**

Setup menu: **Electronic VR** (☞ 128), Picture selected for **Welcome screen** (☞ 129), **Date** (☞ 130), **Language** (☞ 138), and **Video mode** (☞ 138)

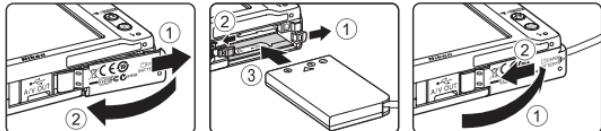
Firmware Version

Tap **MENU** → **Setup menu** (128) → Firmware version

View the current camera firmware version.



Optional Accessories

Rechargeable battery	Rechargeable Li-ion Battery EN-EL10
Battery charger	Battery Charger MH-63
AC adapter	<p>AC Adapter EH-62D <How to attach EH-62D></p>  <p>Check that the AC adapter cord has been inserted correctly into the battery chamber before closing the battery-chamber/memory card slot cover. If part of the cord has not been inserted into the chamber the cover may be damaged during closure.</p>
USB cable	USB Cable UC-E6
AV cable	Audio Video Cable EG-CP14

Approved Memory Cards

The following Secure Digital (SD) memory cards have been tested and approved for use in this camera.

All cards of the designated make and capacity can be used, regardless of speed.

SanDisk	512 MB, 1 GB, 2 GB ¹ , 4 GB ² , 8 GB ² , 16 GB ²
TOSHIBA	512 MB, 1 GB, 2 GB ¹ , 4 GB ² , 8 GB ² , 16 GB ²
Panasonic	512 MB, 1 GB, 2 GB ¹ , 4 GB ² , 8 GB ² , 16 GB ²
Lexar	1 GB, 2 GB ¹ , 4 GB ² , 8 GB ²

¹ If the memory card will be used with a card reader or similar device, check that the device supports 2 GB cards.

² SDHC compliant.



If the memory card will be used with a card reader or similar device, check that device supports SDHC.

Operation is not guaranteed with other makes of card. Contact the manufacturer for details on the above cards.

Image/Sound File and Folder Names

Pictures, movies, voice memos and voice recordings are assigned file names as follows.

DSCN0001.JPG	
Identifier (not shown on camera monitor)	Extension (signifies the file type)
Original still pictures (voice memo attachment included), movies, voice recordings	Still pictures
Cropped copies (voice memo attachment included)	Movies
Small copies (voice memo attachment included)	Voice memos
Copies created using editing function other than crop and small picture (voice memo attachment included)	Voice recordings
Copies created with the draw option	

- Files are stored in folders named with a folder number followed by a five-character identifier: "P_" plus a three-digit sequence number for pictures taken using Panorama assist (e.g. "101P_001"; 48), "INTVL" for interval timer photography (e.g. "101INTVL"; 114), "SOUND" for voice recordings (e.g. "101SOUND"; 86), and "NIKON" for all other pictures (e.g. "100NIKON"). When the number of files within a folder reaches 9999, a new folder will be created. File numbers will be assigned automatically starting with "0001."
- Voice memo file names have the same identifier and file number as the picture to which the voice memo is attached.
- Files copied using **Copy>Selected images** or **Copy sound files>Selected files** are copied to the current folder, where they are assigned new file numbers in ascending order starting from the largest file number in memory. **Copy>All images** and **Copy sound files>Copy all files** copy all folders from the source medium; file names do not change but new folder numbers are assigned in ascending order, starting from the largest folder number on the destination medium (90, 125).
- A single folder can hold up to 200 pictures; if the current folder already contains 200 pictures, a new folder, named by adding one to the current folder name, will be created the next time a picture is taken. If the current folder is numbered 999 and contains 200 pictures, or a picture is numbered 9999, no further pictures can be taken until the internal memory or memory card is formatted (137), or a new memory card is inserted.

Caring for the Camera

To ensure continued enjoyment of this Nikon product, observe the following precautions when using or storing the device:

Keep dry

The device will be damaged if immersed in water or subjected to high humidity.

Do not drop

The product may malfunction if subjected to strong shock or vibration.

Handle the lens and all moving parts with care

Do not apply force to the lens, lens cover, monitor, memory card slot or battery chamber. These parts are easily damaged. Applying force to the lens cover could result in camera malfunction or damage to the lens. Should the monitor break, care should be taken to avoid injury caused by broken glass and to prevent the liquid crystal from the display touching the skin or entering the eyes or mouth.

Do not point the lens at strong light sources for extended periods

Avoid pointing the lens at the sun or other strong light sources for extended periods when using or storing the camera. Intense light may cause deterioration of the CCD image sensor, producing a white blur effect in photographs.

Keep away from strong magnetic fields

Do not use or store this device in the vicinity of equipment that generates strong electromagnetic radiation or magnetic fields. Strong static charges or the magnetic fields produced by equipment such as radio transmitters could interfere with the monitor, damage data stored on the memory card, or affect the product's internal circuitry.

Avoid sudden changes in temperature

Sudden changes in temperature, such as when entering or leaving a heated building on a cold day, can cause condensation to form inside the device. To prevent condensation, place the device in a carrying case or a plastic bag before exposing it to sudden changes in temperature.

Turn the product off before removing or disconnecting the power source

Do not remove the battery while the product is on, or while images are being recorded or deleted. Forcibly cutting power in these circumstances could result in loss of data or in damage to product memory or internal circuitry.

The Battery

- Check the battery level when taking the camera out, and charge the battery if necessary. Do not continue charging once the battery is fully charged, as this will result in reduced battery performance. If possible, carry a fully-charged spare battery when taking pictures on important occasions.
- Do not use the battery at ambient temperatures below 0 °C (32 °F) or above 40 °C (104 °F).
- Charge the battery indoors with an ambient temperature of 5 °C to 35 °C (41 °F to 95 °F) before use.
- Note that the battery may become hot during use; wait for the battery to cool before charging. Failure to observe these precautions could damage the battery, impair its performance or prevent it from charging normally.
- On cold days, the capacity of batteries tends to decrease. Be sure that the battery is fully charged before heading outside to take pictures in cold weather. Keep spare batteries in a warm place and exchange as necessary. Once warmed, a cold battery may recover some of its charge.
- Dirt on the battery terminals can prevent the camera from functioning. Should the battery terminals become dirty, wipe them off with a clean, dry cloth before use.
- If the battery will not be used for some time, insert it in the camera and run it flat before removing it for storage. The battery should be stored in a cool location with an ambient temperature of 15 to 25 °C (59 to 77 °F). Do not store the battery in hot or extremely cold locations.
- Always remove the battery from the camera or battery charger when it is not being used. Left installed, minute amounts of current flow even when unused, and the battery may become excessively drained and no longer function. Turning the camera on or off while the battery is exhausted can result in reduced battery life.
- Recharge it at least once every six months and run it flat before returning it to storage.
- After removing the battery from the camera or battery charger, place it in the supplied battery case and store in a cool place.
- A marked drop in the time a fully-charged battery retains its charge, when used at room temperature, indicates that the battery needs to be replaced. Purchase a new EN-EL10 battery.
- Replace the battery when it no longer holds a charge. Used batteries are a valuable resource. Recycle used batteries in accordance with local regulations.

Cleaning

Lens	Avoid touching glass parts with your fingers. Remove dust or lint with a blower (typically a small device with a rubber bulb attached to one end that is pumped to produce a stream of air out the other end). To remove fingerprints or other stains that cannot be removed with a blower, wipe the lens with a soft cloth, using a spiral motion that starts at the center of the lens and working toward the edges. If this fails, clean the lens using a cloth lightly dampened with commercial lens cleaner.
Monitor	Remove dust or lint with a blower. To remove fingerprints and other stains, clean the monitor with a soft, dry cloth, being careful not to apply pressure.
Body	Use a blower to remove dust, dirt or sand, then wipe gently with a soft, dry cloth. After using the camera at the beach or seaside, wipe off any sand or salt with a dry cloth lightly dampened with fresh water, then dry thoroughly. Note that foreign matter inside the camera could cause damage not covered by the warranty.

Do not use alcohol, thinner, or other volatile chemicals.

Storage

Turn the camera off when not in use. Check that the power-on lamp is off before putting the camera away. Remove the battery if the camera will not be used for an extended period. Do not store the camera with naphtha or camphor moth balls, or in any of the following locations:

- Next to equipment that produces strong electromagnetic fields, such as televisions or radios
- Exposed to temperatures below –10 °C (14 °F) or above 50 °C (122 °F)
- Poorly ventilated or subject to humidities of over 60 %

To prevent mold or mildew, take the camera out of storage at least once a month. Turn the camera on and release the shutter a few times before putting the camera away again.

Notes on the Monitor

- The monitor may contain a few pixels that are always lit or that do not light. This is a characteristic common to all TFT LCD displays, and does not indicate a malfunction. Images recorded using the product will not be affected.
- When framing bright subjects, vertical comet-like streaks that whiten toward either end may appear in the display. This phenomenon, known as "smear," does not appear in the final photograph and does not indicate a malfunction. In shooting modes other than multi-shot 16 continuous or movie, smear has no effect on the images that are recorded.
When using multi-shot 16 continuous shooting and movie modes, however, we recommend that you avoid shooting bright objects.
- Images in the monitor may be difficult to see under bright lighting.
- The monitor is lit by an LED backlight. Should the monitor begin to dim or flicker, contact your Nikon-authorized service representative.

Error Messages

The following table lists the error messages and other warnings displayed in the monitor, as well as the solutions for dealing with them.

Display	Problem	Solution	Icon
(⌚ blinks)	Clock not set.	Set clock.	130
🔋	Battery running low.	Prepare to charge or change battery.	16
ⓘ Battery exhausted.	Battery exhausted.	Charge or change battery.	16
ⓘ Battery temperature high	Battery temperature is high.	Turn off camera, and allow battery to cool down before resuming use. After 5 seconds, this message will disappear, the monitor will turn off, and the power-on lamp and flash lamp will blink rapidly. After the lamps blink for three minutes, the camera will turn off automatically. Pressing the power switch also turns off the camera.	19
ⓘ (● blinks red)	Camera cannot focus.	<ul style="list-style-type: none">• Refocus.• Use focus lock.	28, 29 117
ⓘ Please wait for the camera to finish recording.	Camera cannot perform other operations until recording is complete.	Wait until message clears from display automatically when recording is complete.	29
ⓘ Memory card is write protected.	Write-protect switch is in "lock" position.	Slide write-protect switch to "write" position.	23
ⓘ This card cannot be used.	Error accessing memory card.	<ul style="list-style-type: none">• Use approved card.• Check that connectors are clean.• Confirm that memory card is correctly inserted.	143 22
ⓘ This card cannot be read.			
ⓘ Card is not formatted. Format card? Yes No	Memory card has not been formatted for use in COOLPIX S230.	Tap Yes to format card, or turn camera off and replace card.	23

Display	Problem	Solution	
Out of memory.	Memory card is full.	<ul style="list-style-type: none"> Choose smaller image size. Delete pictures or sound files. Insert new memory card. Remove memory card and use internal memory. 	108 30, 85, 89 22 23
Image cannot be saved.	Error occurred while recording picture.	Format internal memory or memory card.	137
	Camera has run out of file numbers.	<ul style="list-style-type: none"> Insert new memory card. Format internal memory or memory card. 	22 137
	Picture cannot be used for welcome screen.	Pictures taken with an Image mode setting of 16:9 16:9 (3584) or pictures reduced to 320 × 240 size or smaller through cropping and small picture editing cannot be registered as welcome screen.	56, 65, 108
	There is insufficient space to save a copy.	Delete pictures from destination.	124
Album is full. No further pictures can be added.	Over 200 pictures have already been added to favorites folder.	<ul style="list-style-type: none"> Remove some pictures from favorites folder. Add to other favorites folders. 	79 77
Sound file cannot be saved.	Camera has run out of file numbers.	<ul style="list-style-type: none"> Insert new memory card. Format internal memory or memory card. 	22 137
One or more subjects may have closed their eyes.	Recorded a picture in which one or more subjects may have closed their eyes when picture was taken.	Check the picture in playback mode.	51
Image cannot be modified.	Cannot edit selected picture.	Select picture that supports quick retouch, D-Lighting, crop, or small picture.	55

Error Messages

Display	Problem	Solution	
Cannot record movie.	Time out error while recording movie.	Choose memory card with faster write speed.	143
Memory contains no images.	No pictures in the internal memory or memory card.	To copy picture from internal memory to memory card, tap . The copy option screen will be displayed.	125
	No pictures are contained in the folder selected in auto sort mode.	Select the folder containing the sorted pictures.	73
	No pictures can be played back in auto sort mode.	Play back the pictures using playback mode, list by date mode, or favorite pictures mode.	74
	The picture has not been added to favorites folder.	<ul style="list-style-type: none"> Add the picture to favorites folder. Choose the favorites folder that the picture has been added. 	77 78
File contains no image data.	File not created with COOLPIX S230.	File cannot be viewed on this camera. View file using the computer or any other devices which was used to create or edit this file.	–
This file cannot be played back.			
This image cannot be deleted.	Picture is protected.	Disable protection.	124
Travel destination is in the current time zone.	Destination in same time zone as home.	–	132
Lens error	Lens error.	Turn camera off and then on again. If error persists, contact retailer or Nikon-authorized service representative.	24
Lens cover error	Finger or other obstruction prevents lens cover from opening.	Turn camera off and remove obstruction.	4, 145
Communications error	USB cable disconnected during data transfer to printer.	Turn camera off and reconnect cable.	94, 98

Display	Problem	Solution	
System error 	Error has occurred in camera's internal circuitry.	Turn camera off, remove and reinsert battery, and turn camera on. If error persists, contact retailer or Nikon-authorized service representative.	18, 24
 Printer error: check printer status.	Printer error.	Check printer. After solving the problem, tap Resume to resume printing.*	-
 Printer error: check paper	Specified size of paper is not loaded in printer.	Load the specified paper, tap Resume to resume printing.*	-
 Printer error: paper jam	Paper has jammed in the printer.	Eject the jammed paper, tap Resume to resume printing.*	-
 Printer error: out of paper	No paper is loaded in printer.	Load the specified paper, tap Resume to resume printing.*	-
 Printer error: check ink	Ink error.	Check ink, tap Resume to resume printing.*	-
 Printer error: out of ink	Running out of ink or ink cartridge is empty.	Replace ink, tap Resume to resume printing.*	-
 Printer error: file corrupt	An error caused by the image file has occurred.	Tap Cancel to cancel printing.	-

* See the documentation provided with your printer for further guidance and information.

Troubleshooting

If the camera fails to function as expected, check the list of common problems below before consulting your retailer or Nikon-authorized service representative. Refer to the page numbers in the right-most column for more information.

Display, Settings and Power Supply

Problem	Cause/Solution	
Monitor is blank.	<ul style="list-style-type: none">• Camera is off.• Battery is exhausted.• Standby mode for saving power: press the power switch, the shutter-release button, the button, or the button.• When flash lamp blinks red, wait until flash has charged.• Camera and computer are connected via USB cable.• Camera and TV are connected via AV cable.• Interval timer photography in progress.	24 24 19, 25 33 94 91 114
Monitor is hard to read.	<ul style="list-style-type: none">• Adjust monitor brightness.• Monitor is dirty. Clean monitor.	133 147
Camera turns off without warning.	<ul style="list-style-type: none">• Battery is low.• Camera has turned off automatically to save power.• Battery is cold.	24 136 146
Date and time of recording are not correct.	<ul style="list-style-type: none">• Pictures recorded before clock has been set, and "Date not set" indicator blinks during shooting, will have time stamp of "00/00/0000 00:00"; movies and voice recordings will be dated "01/01/2009 00:00." In list by date mode, pictures are recognized as having been taken on 01/01/2009. Set the correct time and date from the Date option in the setup menu.• Check camera clock regularly against more accurate timepieces and reset as required.	20 130
No indicators displayed in monitor.	Tap to change the information displayed in the monitor.	12
Date imprint not available.	Camera clock has not been set.	20, 130

Problem	Cause/Solution	
Date not appearing on pictures even when Date imprint is enabled.	Date does not appear on movies, on pictures taken using  (Sports scene mode),  (Museum scene mode),  (Panorama assist scene mode), when Blink proof is set to On in smile mode, when the Continuous setting is set to Continuous or BSS , or when Electronic VR is set to Auto .	38, 41, 42, 51, 82, 113, 128
Camera settings reset.	Backup battery is exhausted; all settings were restored to their default values.	131
Monitor turns off, and the power-on lamp and flash lamp blink rapidly.	Battery temperature is high. Turn off camera, and allow battery to cool down before resuming use. After the lamps blink for three minutes, the camera will turn off automatically. Pressing the power switch also turns off the camera.	19

Electronically Controlled Cameras

In extremely rare instances, unusual characters may appear in the monitor and the camera may stop functioning. In most cases, this phenomenon is caused by a strong external static charge. Turn the camera off, remove and replace the battery, then turn the camera on again. In the event of continued malfunction, contact your retailer or Nikon-authorized service representative. Note that disconnecting the power source as described above may result in the loss of any data not recorded to internal memory or the memory card at the time the problem occurred. Data already recorded will not be affected.

Shooting

Problem	Cause/Solution	
No picture taken when shutter-release button is pressed.	<ul style="list-style-type: none"> When camera is in playback mode, press the  button or the shutter-release button. When menus are displayed, tap . Battery is exhausted. When flash lamp blinks, flash is charging. 	30 14 24 33
Camera cannot focus.	<ul style="list-style-type: none"> The intended subject is one with which autofocus does not perform well. Focus error. Turn camera off and then on again. 	29 24

Troubleshooting

Problem	Cause/Solution	
Pictures are blurred.	<ul style="list-style-type: none"> • Use flash. • Use ISO sensitivity>High ISO auto in the shooting menu. • Use electronic vibration reduction or motion detection. • Use BSS. • Use tripod and self-timer. 	32 115 128, 134 113 34
Bright specks appear in pictures taken with flash.	Flash is reflecting off particles in air. Turn flash off.	33
Flash does not fire.	<ul style="list-style-type: none"> • Flash is off. • Some scene modes that cannot turn on flash are selected. •  mode is selected. • Continuous, Multi-shot 16 or BSS is selected for the Continuous setting. 	32 36-42 82 113
Optical zoom cannot be used.	Optical zoom cannot be used while recording movies.	82
Digital zoom cannot be used.	<p>Digital zoom is set to Off in the setup menu. Digital zoom is not available in the following situations.</p> <ul style="list-style-type: none"> • When Scene auto selector, Portrait, or Night portrait is selected for scene mode. • When shooting in smile mode • Just before recording a movie (up to 2x can be applied while recording movies). • When Multi-shot 16 is selected for the Continuous setting. 	135 37, 38 50 82 113
Image mode not available.	Image mode cannot be adjusted when Multi-shot 16 is selected for the Continuous setting.	113
No sound when shutter is released.	<ul style="list-style-type: none"> • Off is selected for Sound settings>Shutter sound in setup menu. • Continuous, Multi-shot 16 or BSS is selected for the Continuous setting in shooting menu. •  (Sports scene mode) or  (Museum scene mode) is selected. •  mode is selected. • The speaker is being blocked. Do not cover it. 	136 113 38, 41 82 4, 26
Pictures appear smeared.	Lens is dirty. Clean lens.	147
Colors are unnatural.	White balance does not match light source.	110

Problem	Cause/Solution	
Randomly spaced bright pixels ("noise") appear in image.	Shutter speed too slow or ISO sensitivity is high as the subject is dark. Noise can be reduced by: <ul style="list-style-type: none"> Using flash. Specifying a lower ISO sensitivity setting. Using a scene mode which has noise reduction ability. 	32 115 37-42
Pictures are too dark (underexposed).	<ul style="list-style-type: none"> Flash is off. Flash window is blocked. Subject is beyond flash range. Adjust exposure compensation. Select High ISO auto for ISO sensitivity in the shooting menu, or raise the ISO sensitivity. Subject is backlit. Select  (Backlight scene mode) or use fill flash. 	32 26 32 112 115 32, 42
Pictures are too bright (overexposed).	Adjust exposure compensation.	112
Unexpected results when flash set to  (auto with red-eye reduction).	If taking pictures with  (auto with red-eye reduction) or fill flash with slow sync and red-eye reduction when scene mode is set to Night portrait , In-Camera Red Eye Fix may be applied to areas not affected by red-eye. Use any scene mode other than Night portrait , and change the flash to any other settings other than  (auto with red-eye reduction) and try shooting again.	32, 38

Playback

Problem	Cause/Solution	
File cannot be played back.	<ul style="list-style-type: none"> File or folder was overwritten or renamed by computer or other makes of camera. Interval timer photography in progress: pictures cannot be played back until recording is complete. 	- 114
Cannot zoom in on picture.	Playback zoom cannot be used with movies, small pictures, or pictures that have been cropped to below 320 × 240.	-
Cannot record or play back voice memos.	<ul style="list-style-type: none"> Voice memos cannot be appended to movies. Voice memos cannot be attached to images taken with other cameras. Voice memos that are attached to the image using other cameras cannot be played back on this camera. 	85 66

Troubleshooting

Problem	Cause/Solution	85 108 55 55 55
Cannot edit pictures.	<ul style="list-style-type: none">These options cannot be used with movies.These options cannot be used with pictures taken when 16:9 (3584) is applied in the Image mode setting.Select pictures that support editing functions.Camera is unable to edit pictures taken with other cameras.Other cameras may be unable to play back pictures recorded with this camera.	138 22 92
Pictures not displayed on television.	<ul style="list-style-type: none">Choose correct Video mode.Memory card contains no pictures. Replace the memory card. Remove the memory card to play back pictures from the internal memory.TV display is turned off and pictures are displayed in the camera monitor.	-
Control settings for favorites folder restore to default settings, or pictures added to favorites are not displayed during favorite pictures playback.	Data on the memory card may not be played back correctly if overwritten on a computer.	-
The recorded pictures are not displayed in auto sort mode.	<ul style="list-style-type: none">The picture you want to display is sorted in a folder other than that you are browsing.Pictures recorded by a camera other than the COOLPIX S230 or pictures copied using the copy option cannot be displayed in auto sort mode.Pictures in the internal memory or memory card may not be played back correctly if overwritten on a computer.Up to 999 pictures and movie files can be added to each folder. If the desired folder already contains 999 pictures, new pictures or movies cannot be added.	72 - -

Problem	Cause/Solution	
Nikon Transfer does not start when camera is connected.	<ul style="list-style-type: none"> • Camera is off. • Battery is exhausted. • USB cable is not correctly connected. • Camera is not recognized by the computer. • Computer is not set to start Nikon Transfer automatically. For more information on Nikon Transfer, refer to help information contained in Nikon Transfer. • Check the compatible operating systems. 	24 24 94 – – 96
Pictures to be printed are not displayed.	Memory card contains no pictures. Replace the memory card. Remove the memory card to print pictures from the internal memory.	22
Cannot select paper size with camera.	Paper size cannot be selected from the camera if the printer does not support the paper sizes used by the camera, or the printer automatically selects the paper size. Use the printer to select paper size.	99, 100

Specifications

Nikon COOLPIX S230 Digital Camera

Type	Compact digital camera
Effective pixels	10.0 million
Image sensor	1/2.3-in. CCD; total pixels: approx. 10.34 million
Lens	3x optical zoom, NIKKOR lens
Focal length	6.3-18.9mm (equivalent with 35mm [135] format picture angle: 35-105mm)
f-number	f/3.1-5.9
Construction	6 elements in 5 groups
Digital zoom	Up to 4x (equivalent with 35mm [135] format picture angle: approx. 420mm)
Vibration reduction	Electronic VR
Autofocus (AF)	Contrast-detect AF
Focus range (from lens)	<ul style="list-style-type: none">Approx. 60 cm (2 ft.) to ∞Macro mode: Approx. 10 cm (4 in.) to ∞ (when the zoom indicator is positioned below Δ on wide-angle side)
Focus-area selection	Auto (9-area automatic selection), center, manual (focus area can be selected using the touch panel), face priority
Monitor	3-in., approx. 230k-dot, TFT LCD (touch panel) with anti-reflection coating and 5-level brightness adjustment
Frame coverage (shooting mode)	Approx. 97 % horizontal and 97 % vertical
Frame coverage (playback mode)	Approx. 100 % horizontal and 100 % vertical
Storage	
Media	<ul style="list-style-type: none">Internal memory (approx. 44 MB)SD (Secure Digital) memory cards
File system	DCF, Exif 2.2, and DPOF compliant
File formats	Compressed: JPEG-Baseline compliant Movies: AVI Sound files: WAV
Image size (pixels)	<ul style="list-style-type: none">3,648 × 2,736 High (3648★)/Normal (3648)2,592 × 1,944 Normal (2592)2,048 × 1,536 Normal (2048)1,024 × 768 PC screen (1024)640 × 480 TV screen (640)3,584 × 2,016 16:9 (3584)
ISO sensitivity (Standard output sensitivity)	ISO 80, 100, 200, 400, 800, 1600, 2000, Auto (auto gain from ISO 80 to 800), High ISO auto (ISO 80 to 1600)

Exposure	
Metering	256-segment matrix, center-weighted (digital zoom less than 2×), spot (digital zoom 2× or more)
Exposure control	Programmed auto exposure with motion detection and exposure compensation (-2.0 to +2.0 EV in steps of $\frac{1}{3}$ EV)
Range (ISO 100)	[W]: 0.3 to 14.7 EV [T]: 2.1 to 16.4 EV
Shutter	Mechanical and charge-coupled electronic shutter
Speed	1/1000-2 s 4 s (when scene mode is set to Fireworks show)
Aperture	Electronically-controlled preset aperture
Range	2 steps (f/3.1 and f/4.6 [W])
Self-timer	Can be selected from 10 and 2 second duration
Built-in flash	
Range (approx.) (ISO sensitivity: Auto)	[W]: 0.6 to 4.6 m (2 to 15 ft.) [T]: 0.6 to 2.5 m (2 to 8 ft.)
Flash control	TTL auto flash with monitor preflashes
Interface	Hi-Speed USB
Data Transfer Protocol	MTP, PTP
Video output	Can be selected from NTSC and PAL
I/O terminal	Audio video output/digital I/O (USB)
Supported languages	Arabic, Chinese (Simplified and Traditional), Czech, Danish, Dutch, English, Finnish, French, Greek, German, Hungarian, Indonesian, Italian, Japanese, Korean, Polish, Portuguese, Norwegian, Russian, Spanish, Swedish, Thai, Turkish
Power sources	One EN-EL10 Rechargeable Li-ion Battery (supplied) AC Adapter EH-62D (available separately)
Battery life*	Approx. 160 shots (EN-EL10)
Dimensions (W × H × D)	Approx. 91 × 57 × 20 mm (3.6 × 2.3 × 0.8 in.) (excluding projections)
Weight	Approx. 115 g (4.1 oz.) (without battery and SD memory card)
Operating environment	
Temperature	0 to 40 °C (32 to 104 °F)
Humidity	Less than 85 % (no condensation)

Specifications

- Unless otherwise stated, all figures are for a camera with a fully-charged Rechargeable Li-ion Battery EN-EL10 operated at an ambient temperature of 25 °C (77 °F).
- * Based on Camera and Imaging Products Association (CIPA) standards for measuring the life of camera batteries. Measured at 23 °C (73 °F); zoom adjusted with each shot, flash fired with every other shot, image mode set to **Normal (3648)**. Battery life may vary depending on shooting interval and length of time menus and images are displayed.

Rechargeable Li-ion Battery EN-EL10

Type	Rechargeable lithium-ion battery
Rated capacity	DC 3.7 V, 740 mAh
Operating temperature	0 to 40 °C (32 to 104 °F)
Dimensions (W × H × D)	Approx. 31.5 × 39.5 × 6 mm (1.2 × 1.6 × 0.2 in.) (excluding projections)
Weight	Approx. 15 g (0.5 oz) (excluding battery case)

Battery Charger MH-63

Rated input	AC 100-240 V, 50/60 Hz, 0.07-0.045 A
Rated capacity	7-10.8 VA
Rated output	DC 4.2 V, 0.55 A
Battery	Rechargeable Li-ion Battery EN-EL10
Charging time	Approx. 100 minutes when battery is fully discharged
Operating temperature	0 to 40 °C (32 to 104 °F)
Dimensions (W × H × D)	Approx. 54 × 20 × 85 mm (2.1 × 0.8 × 3.3 in.) (excluding power cable)
Length of power cable	Approx. 1.8 m (6 ft.)
Weight	Approx. 55 g (1.9 oz) (excluding power cable)

Specifications

Nikon will not be held liable for any errors this manual may contain. The appearance of this product and its specifications are subject to change without notice.

Supported Standards

- **DCF:** Design Rule for Camera File System is a standard widely used in the digital camera industry to ensure compatibility among different makes of camera.
- **DPOF:** Digital Print Order Format is an industry-wide standard that allows pictures to be printed from print orders stored on the memory card.
- **Exif version 2.2:** This camera supports Exif (Exchangeable Image File Format for Digital Still Cameras) version 2.2, a standard that allows information stored with photographs to be used for optimal color reproduction when images are output from Exif-compliant printers.
- **PictBridge:** A standard developed cooperatively by the digital camera and printer industries, allowing photographs to be output directly to a printer without connecting the camera to a computer.

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Fuji Bldg., 2-3 Marunouchi 3-chome,
Chiyoda-ku, Tokyo 100-8331, Japan

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